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STREAM CATALOG OF SOUTHEASTERN ALASKA REGULATORY DISTRICT No. 3 AND 4

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ABSTRACT

Information about part of Southeastern Alaska salmon streams is cataloged from the voluminous records of the Alaska Department of Fish and Game, the Alaska Salmon Industry, the Fisheries Research Institute of the University of Washington, the U.S. Fish and Wildlife Service, and other agencies. Stream descriptions, maps, and historical records of salmon escapement data are compiled for 80 salmon streams in Regulatory Districts Nos. 3 and 4. Each stream is located geographically by latitude and longitude, and by orientation to prominent landmasses. A standard numbering system, number designations formerly in use, and common names of each stream are listed. Physical descriptions are presented for the intertidal zone and the upstream area of each stream. Available records of weather, water temperatures, and information useful to ground and aerial stream surveyors are presented in brief form. The species of salmon utilizing the spawning grounds and estimates of the escapements each year for many years are given.

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UNITED STATES DEPARTMENT OF THE INTERIOR, STEWART L. UDALL, SECRETARY
Fish and Wildlife Service, Clarence F. Pautzke, Commissioner
Bureau of Commercial Fisheries, Donald L. McKernan, Director

STREAM CATALOG OF SOUTHEASTERN ALASKA

REGULATORY DISTRICTS NOS. 3 AND 4

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STREAM CATALOG OF SOUTHEASTERN ALASKA REGULATORY DISTRICTS NOS. 3 AND 4 [1/]

INTRODUCTION

The pink salmon of Southeastern Alaska are an important fishery resource. Millions of these fish are captured annually by the commercial fishery during their spawning migration. There are more than 1,100 known spawning streams, plus hundreds of small, individually unimportant ones, scattered along the 9,000 coastal miles of Southeastern Alaska.

For many years, management and research agencies of the Federal, Territorial, and State governments, Alaska salmon canners, and the Fisheries Research Institute of the University of Washington, have independently conducted stream surveys of the salmon spawning grounds. A vast amount of valuable information has been accumulated and has been, in the main, kept on file in the offices of the various organizations.

To make full use of all these scattered materials, records from the various sources have been gathered together and methods of stream surveying have been studied on a comparative basis. This information has been consolidated into a standard form which is presented here as a stream catalog.

This catalog has been compiled under a contract given to the Fisheries Research Institute by the United States Fish and Wildlife Service. The material contained herein includes 80 major and numerous minor streams of Regulatory Districts Nos. 3 and 4.

Information on each stream is presented by a stream description and, when available, a map and escapement record. Information pertinent to the identification of each stream by name, number, and location is given, and further physical features are described where necessary for positive identification. Descriptions of each stream are given as completely as available information allows. The catalog format is so designed that future surveys by various agencies can be recorded and conducted according to a uniform style.

As a handbook of salmon streams, this catalog is expected to serve as an aid to conservation agencies as well as others who have an interest in the valuable salmon resource of Southeastern Alaska.

SOURCES OF DATA

The information compiled in this catalog is derived from a number of sources, both in and outside of the field of fishery work. A complete list of these sources is given below.

Alaska Department of Fish and Game. Valuable stream and escapement information as available in reports by research and management personnel.

Alaska Salmon Industry. Surveys (made by individual members of the industry) are among some of the earliest records available.

Fisheries Research Institute. Records are available for each year starting with 1947. Many of the Institute research projects have been concerned with precise measurements of physical factors. Data from these projects provide some of the stream descriptions and escapement estimates included in this catalog. In 1950 and 1951 the Institute assembled a stream catalog for Southeastern Alaska with all the information then available. It has served as a guide for the present catalog.

U. S. Coast and Geodetic Survey. Charts used throughout the catalog for standardization of stream location coordinates are from this source. A number of large-scale charts have provided intertidal zone information.

The U. S. Coast Pilot (1952, Southeast Alaska, Dixon Entrance to Yakutat Bay, x, 544 p., plus charts) is the source of information on vessel approaches to stream mouths and the authority for spelling of proper names.

U. S. Fish and Wildlife Service. District catalogs of this agency are a major source of stream physical data and salmon escapement records. Escapement records from the streams where weirs were operated are actual counts. The F. W. S. stream numbering system is the basis for the numbering system used in this catalog. Information on some of the large mainland streams with headwaters in Canada was obtained from the Canadian government by the U. S. Fish and Wildlife Service.

U. S. Federal Power Commission. The report, Water Power of Southeastern Alaska, 1947, published with

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1/ Contribution No. 153, College of Fisheries, University of Washington, Seattle, Wash. It is the third catalog of salmon streams of Southeastern Alaska. The first catalog covered the Eastern Section of Ketchikan Management District, Special Scientific Report--Fisheries No. 305 (Reg. Dist. No. 1), and the second catalog covered the Western Section, (Reg. Dist. No. 2), Special Scientific Report--Fisheries No. 453.

the cooperation of the U. S. Forest Service, provides discharge rates and stream drainage areas, and other information about a number of important salmon streams.

U. S. Forest Service. Data on stream characteristics and salmon escapements are available on several streams in records of studies conducted by this agency on the effects of logging on the physical makeup of streams.

U. S. Geological Survey. Aerial photographs from this agency are the primary source for measurements of stream distances and areas and for valley features not visible from the ground. These photographs, which are of most of the streams in Southeastern Alaska, were made by the U. S. Navy (Patrol Squadron Four) in 1948.

Local residents. Another source is the descriptive information on several major streams provided by local residents.

LIMITATION OF DATA

Escapement estimates obtained by visual means are often limited in accuracy because fish are not seen in turbid water, under overhanging streambanks, or in areas inaccessible to observers. Actual counts throughout the duration of the salmon run past a counting weir or tower are relatively accurate estimates of total escapement. However, it is not economically feasible to establish a weir on each stream, and escapement surveys are the only source of information for a large part of the area which must be covered. The value of the catalog as a history of the salmon escapements can be realized only if its limitations are fully known.

Escapement Estimates

Escapement estimates do not indicate the actual total escapement. At no time are all the salmon in the stream simultaneously since the spawning run extends over a period of weeks. Therefore, each escapement estimate is an index of the relative abundance at the time of survey.

The maximum estimate determined by survey methods at about the peak of the run is used as an estimate of the relative abundance of the total escapement. Reliable indices of relative abundance from year to year can be made only if the surveys are comparable. Evaluation of the following factors is necessary to determine the accuracy of the escapement estimates.

Observers.--The escapement records are from many different observers. Variability in estimating the number of salmon in a given area by different observers should be considered in judging the accuracy of the data. In general, with more observers variability increases.

Survey systems. --Different survey systems have been used by the various agencies. Reliability of the escapement estimates varies with the systems used.

Survey systems that employ standard counting techniques over standard distances are the most reliable method now available for comparison of abundance between years, particularly when streams can be only partially covered. Standard survey distances in comparatively long streams were not widely used prior to 1949.

Survey systems requiring periodic visits to each stream during the spawning period are more reliable for estimates of peak abundance than systems requiring only one or two visits. The peak period of abundance in a salmon stream is usually relatively short, and one or two visits may miss the peak.

Type of survey. --Two basic methods for covering the streams during escapement surveys are being used.

The oldest method is the ground survey in which the observer follows the stream course on foot or in a skiff with an outboard motor. Most parts of the stream can be closely observed by this type of survey.

The newer method is aerial survey. This is a fast, economical means of covering a large number of streams in a short period of time over stream distances greater than is possible on the ground. This method requires experienced personnel familiar with ground surveys as well.

Aerial surveys are best suited for large rivers and streams where ground coverage is limited usually to the lower portion of the stream near the banks. Ground surveys are more reliable than aerial surveys on small streams that offer poor visibility from the air.

Observation conditions. --Weather is an extremely important factor in the reliability of escapement estimates. During flooding, ground surveys can be made only with great difficulty.

Visibility is also greatly reduced because of turbid water. Any estimate made during years that had heavy rains of long duration during the peaks of spawning runs is not comparable with an estimate made during normal water levels.

Streams in which intertidal spawning predominates may present difficult observation conditions at high tide. Spawning salmon in the intertidal zone behave differently when the spawning areas are flooded by the high tide.

Aerial observations vary with the different types of aircraft used. Observations made from small light planes capable of following winding stream courses are more reliable than those made from larger planes which must fly at considerable height above the stream and generally at greater speeds.

Physical Observations

Observations of the characteristics of each stream by different observers have been recorded with varying degrees of accuracy. Many details of stream descriptions are dependent upon the individual observer's ability and knowledge.

Many stream dimensions are merely estimates. Instruments for measurements were usually not available to observers, and packing and estimating were used.

Most basic stream distances have been taken from aerial photographs and are relatively accurate. However, some errors may have occurred where reference points were difficult to identify. Drainage estimates were based on compensating polar planimeter measurements of valley areas, but occasionally drainage divides were difficult to distinguish and the areas given are only approximate.

EXPLANATION OF CATALOG FORMAT

Further descriptions of the data such as estimates of timing, temperature ranges, spawning facilities, etc., are included under these specific headings in the explanation of the catalog format that follows:

Stream Designations

Statistical area number. --The number used by the Alaska Department of Fish and Game to designate the statistical area is given in the upper left side of the heading.

Stream name. --This appears in the center of the first line of the heading. Recorded names or common local names are used when available. Otherwide unnamed streams of importance are given descriptive names corresponding to location or other distinguishing features. Some streams have identical names; they are retained without change due to local usage. Many minor streams have no names; hence they are identified only by number.

Stream number. --This number appears on the right side of the first line of the heading. The letter preceding the number designates the administrative district in Southeastern Alaska: e.g., "WC" for West Coast. Continuity of stream numbers along a shoreline is followed where practical. Due to the numerous islands, breaks in the sequence have been necessary. A catalog number combining numbers and letters designates a minor stream, either adjacent to or between major streams numbered in sequence. For example, stream number 18A is a minor stream adjacent to major stream number 18.

ADF Statistical number. --A space for the new ADF Statistical number is provided for use when the new numbers are assigned.

Latitude and longitude. --This appears on the second line, left side, of the heading. Location of streams is given by the use of "N. " for north latitude, and "W." for west longitude, stated in degrees (°), and minutes and tenths of minutes ('). Location of the high tide point on the stream is given for positive identification.

Previous number. --This appears on the second line, right side, of the heading. Stream number or numbers used in the past by Fish and Wildlife Service are given for positive identification of old stream records.

Geographic location. --This appears on the third line of the heading. Each stream location is described by the administrative district, major channel, bay or inlet, arm or cove, and location within the smallest division given by direction (from true north) and distance (nautical miles).

Major species. --Included are those species of salmon which furnish the bulk of spawning in the stream. Where more than one dominates, both (or more) are included.

Other species. --This indicates other known species of salmon and trout using the stream.

Escapement timing. --The timing is based on systematic stream survey records, which include a number of years of surveys with visits before, near, and after the peaks of abundance. Extensive stream temperature studies were conducted in conjunction with most of these surveys. The earliest runs of salmon occur along the colder mainland streams. The latest runs are in the outer channel and coastal

areas where stream levels are dependent upon rainfall. An intermediate timing of the runs occurs in the region lying between the mainland and outer coastal areas. Three major time divisions are used to indicate the peak period that the major species are found in the stream. "Early" designates peaks before August 15; "middle", peaks between August 15 and September 15; "late", peaks after September 15. The range of time in which the major species are found in the streams is given by months.

Escapement magnitude. --These are estimates of the total escapement, based on stream counts of the peak abundance of salmon, multiplied by a certain factor. This factor was determined from stream tagging experiments conducted at Herman Creek in 1953 by the Fisheries Research Institute, who found the total escapement was between two and three times the peak count. The range of the escapement magnitude is given in thousands.

Spawning facilities. --This includes a general classification rating of poor, fair, good, excellent, etc. The rating is based on estimates made by various individuals.

Stream temperatures. --In this classification the following general ranges are used for each stream. Each range is for the 3-month period (July, August, and September) in which the majority of the salmon spawning migrations occur:

Cold range, averaging less then 50° F., usually an early run stream.

Normal range, averaging between 50° F., and 55° F., usually a middle run stream.

Warm range, averaging over 55° F., usually a late run stream.

These ranges generally correspond to the geographic location of the stream and time of the runs. Where only limited temperature information is available for a stream, the range has been estimated from its location and timing of run. Cold-range streams are usually found along the mainland or on the larger islands in the northern part of Southeastern Alaska. Warm-range streams are usually found along the outer channels and coastal areas, which are dependent upon precipitation as the primary source of supply. The normal-range streams appear to fall geographically between and may combine characteristics of both cold- and warm-range streams. Timing of the salmon runs, especially pink salmon, also follows the geographic distribution outlined above. Recording thermograph data, available from a number of streams with known escapement timing, have been used as a basis for comparison.

Valley description. --Glacial, stream-cut, etc., describe valley origin with a general description of the outstanding features such as length, width, timber, slopes, directions, etc. They have been obtained from aerial photographs and by direct observations.

Drainage area. --This has been either estimated in square miles or computed with a polar planimeter from aerial photographs. Estimates of the drainage area of large systems have been taken from the small-scale, key, composite photographs and are less reliable. Data from Water Power of Southeastern Alaska 1947 are included when available. Descriptions are given of supply sources, drainage topography, and characteristics governing water quality and temperature ranges during spawning from the editor's interpretation of aerial photos and local knowledge.

Stream mouth identification. --This is a description of some general features visible at the stream mouth.

Anchorage. --Descriptions of temporary anchorages which have been used for short stops by stream survey vessels are given. Overnight and storm anchorages are given in the U. S. Coast Pilot.

Trails and survey routes. --These include descriptions of trails that have been used by ground parties on stream surveys. Where other than the streambed was used, a description of routes is given, including difficult points, identification, outstanding features, presence of brown bear, etc.

Aerial survey notes. --The notes include remarks from various individual observations on the visibility in each stream and the conditions considered necessary for adequate observations. Approaches to valley, starting points, and any known hazards are described from aerial surveyor's notes and the editor's knowledge of the area.

Intertidal Zone

Length. --The distance is given in miles from mean high to mean low tide, obtained from aerial photographs measured to the nearest tenth of a mile. Where low tide locations were not known the measurement was made from the edge of tidal flats visible in the photographs.

Average width. --These estimates in feet based on observations by various individuals.

Average depth. --These are estimates in inches, or in feet in larger systems, based on observation by various individuals.

Gradient. --Estimates in degrees from horizontal, based on observation by various individuals.

Velocity. --Estimates in feet per second during normal water levels, based on observation by various individuals.

Bottom. --A description is given of the composition such as gravel (range from 1/4 inch to over 5 inches in diameter, arbitrary division point), mud, silt, organic materials, broken and water-washed rock, boulders, large rocks, bedrock, etc., according to observation by various individuals.

Low tide location. --The location of the mean low tide point is an approximation and is given only where it falls near good identification points, usually found in restricted stream outlets.

High tide location. --The mean high tide location generally has been found to correspond to the tree line. Other methods of locating the high tides, such as markers, are described when present.

Salmon schooling areas. --The areas are usually found near high tide where pools often occur. The areas are described with reference to the mean high tidemark. Annual variations in streambeds may alter locations of schooling areas.

Spawning areas. --Major areas are described with reference to the high tidemark. Location may change with change in stream conditions.

General notes. --This includes notes pertinent to the intertidal stream that are of interest and importance in the description of runs.

Upstream

Length accessible. --The length given in miles was measured from aerial photographs along the course of the stream to the known upper limits of salmon migration. Where barriers restrict major species but allow more vigorous species to pass, secondary species limits are given under "Barriers."

Gradient. --Slope was estimated in degrees from horizontal, based on observation by various individuals.

Velocity. --It is in feet per second during normal water levels and is an estimate from observation by various individuals.

Bottom. --A description is given whether gravel (range from 1/4 inch to over 5 inches in diameter, arbitrary division point), mud, silt, organic materials, broken and water-washed rock, boulders, bedrock, etc., are present, from observation by various individuals.

Marker distance. --Distance is given in miles along stream course to standard termination point for salmon counting.

Marker identification. --Description of an artificial marker or of identification feature marking termination point for salmon spawning surveys is given.

Barriers. --Distance and location above high tide point to known barriers, both passable and impassable, are listed. Descriptions are also given when available.

Tributaries. --Tributaries used by spawning salmon are listed by distance from the mouth of the main stream, by direction, and by importance. Tributaries not used by salmon, but numerous, are mentioned under "Drainage."

Salmon schooling areas. --Based on survey records, major salmon schooling areas are listed where specific locations have been observed for an individual stream.

Spawning areas. --Major areas are described by distance above high tide or from a reference point in the stream.

General notes. --The notes include data pertinent to the upstream areas that are of interest and importance in the description of salmon escapements.

Escapement Record

Statistical area number. --The number used by the Alaska Department of Fish and Game to designate the statistical area is given on the upper left side of the heading.

Stream name. --This appears in the center of the first line of the heading.

Stream number. --The new and old numbers appear on the right side of the first line of the heading on the first page of the escapement record. The following pages give only the new number.

Date surveyed. --Surveys are listed chronologically.

Miles surveyed. --Distances are given as measured along stream courses to the termination point of the regular survey. Ground surveys are designated by "G" and aerial by "A." These symbols precede miles surveyed.

Surveyed by. --Initials of surveying organizations are listed as follows: Alaska Department of Fish and Game, ADF; Alaska Salmon Industry, ASI; Fisheries Research Institute, FRI; U. S. Fish and

Wildlife Service, Bureau of Commerical Fisheries, FWS; and U. S. Forest Service, USFS.

Pink, chum, other species. --Abundance of salmon observed during surveys is given as a numerical estimate. Estimates of secondary species are usually less reliable than those for the primary species. Estimates of dead salmon of all species usually are very general, having been based on the percentage of the count.

Remarks. --Adjective ratings are given first when available. The ratings range from poor to excellent and describe the abundance of salmon for the surveyed date only. They do not indicate seasonal escapement abundance. Other notes entered in this column include survey conditions, behavior and distribution of salmon, and salmon observations beyond stated survey distances.

Weir Record

Salmon escapement counts made by weirs operated by the U. S. Fish and Wildlife Service and the Alaska Department of Fish and Game follow Escapement Record when available.

MAPPING SYMBOLS

North

LANDFORMS

Bank

Bedrock

Boulders

Canyon

Dry Channel

Glacier

Gorge

Gravel

Hill
Low or Rolling Grade

Steep Grade

Ridge

Sand (bar)

MARKERS

Fish and Wildlife
Limit Marker

Forest Service
Trail Marker

HT
High Tide Marker

Marker

Section Marker

Stream Gage

ROUTES

Railroad

Road

Trail (type designated)

STRUCTURES

Beaver Dam

Bridge

Cabin
Instrument Shelter

Cable Crossing

Dam

Pier

Piling

Weir

Windfall

VEGETATION

Brush

Grass

Muskeg

Stump

Trees
Conifers

Deciduous

WATER FORMS

Anchorage

Channel (in sand
and gravel)

Falls

Fathom

Float

Pool

Rapids

Riffle

Stream Entrance

Tidal Area (sand and
gray value)

Water (gray value)

ALPHABETICAL INDEX OF SALMON STREAMS

BEAVER CREEK, Cordova Bay, Hetta Inlet, N. of N. W. corner of Gould Island	WC 15	(40)
Big Salt Lake, 2 miles N. W. of head, Shinaku Inlet	WC 44	(52)
Big Salt Lake, Head, Shinaku Inlet	WC 41	(51)
Big Salt Lake, 1 mile N. of head, Shinaku Inlet	WC 42	(74)
CALDERA CREEK, Port Caldera, Head, Bucareli Bay	WC 29	(62)
CAMP TAYLOR CREEK, Sarheen Cove, Head, El Capitan Passage	WC 57	(21)
CLAM CREEK, Clam Cove, Head, Kassa Inlet, Cordova Bay	WC 7	
COCO CREEK, Coco Harbor, Head, Tlevak Strait	WC 24	(57)
COPPER CREEK, Copper Harbor, Head, Hetta Inlet, Cordova Bay	WC 13	(42)
Datzkoo Harbor, 1.2 miles from head on N. shore, Kaigani Strait	WC 20	(89)
Davidson Inlet, 2 miles N. of Limestone Point	WC 73	(7)
DEER CREEK, Deer Bay, Head, Hetta Inlet, Cordova Bay	WC 16	(41)
Devilfish Bay, N. shore at entrance, El Capitan Passage	WC 65	(20)
DEVILFISH CREEK, Devilfish Bay, Head, El Capitan Passage	WC 66	(19)
DOG SALMON CREEK, Big Salt Lake, 2.3 miles from head on S. shore, Shinaku Inlet	WC 40	(72)
Edna Bay, S. W. corner of bay, Davidson Inlet	WC 76	(6)
Edna Bay, 1 mile S. W. of head, Davidson Inlet	WC 75	(5)
EDNA CREEK, Edna Bay, head of N. arm, Davidson Inlet	WC 74	(4)
EEK LAKE CREEK, Eek Inlet, Head, Cordova Bay	WC 17	(43)
ESTRELLA CREEK, Port Estrella, Head, Bucareli Bay	WC 28	(63)
GRACE CREEK, Grace Harbor, Head, Kaigani Strait	WC 21	
Hassiah Inlet, head of E. arm, Cordova Bay	WC 9A	(88A)
Hassiah Inlet, head of N. arm, Cordova Bay	WC 9B	(88B)
HESSA CREEK, Hessa Inlet, head of N. arm, Eureka Channel, Cordova Bay	WC 1	
HETTA LAKE CREEK, Hetta Cove, Head, Hetta Inlet Cordova Bay	WC 12	(44)
Holbrook Bay, 0.3 mile from head on W. shore, Davidson Inlet	WC 71	(10)
HOLBROOK CREEK, Holbrook Bay, Head, Davidson Inlet	WC 70	(9)
Hunter Bay, head of N. arm, Cordova Bay	WC 3	
HUNTER CREEK, Hunter Bay, Head, Cordova Bay	WC 2	(45)
HYDABURG CREEK, Sukkwan Narrows, N. of Hydaburg, Sukkwan Strait	WC 18	
KASOOK LAKE CREEK, Kasook Inlet, Head, Tlevak Strait	WC 25	
Kassa Inlet, Head, Cordova Bay	WC 8	
Keete Inlet, head of N. arm on E. shore, Cordova Bay	WC 10A	
Keete Inlet, E. shore at mouth of N. arm, Cordova Bay	WC 10B	
Keete Inlet, 3 miles S. E. of head, Cordova Bay	WC 10C	
Keete Inlet, head of N. arm on W. shore, Cordova Bay	WC 10	(53)
Klakas Inlet, Head, Cordova Bay	WC 6	(1)
Klakas Inlet, W. shore 1 mile from head, Cordova Bay	WC 6A	
Klakas Inlet, W. shore 4 miles from head, Cordova Bay	WC 6B	
Klakas Inlet, W. shore 6 miles from head, Cordova Bay	WC 6C	
KLAKAS LAKE CREEK, Klakas Inlet, 5 miles from head of Inlet, Cordova Bay	WC 5	

KLAWAK CREEK, Klawak Harbor, Head, Klawak Inlet	WC 39	(60)
MABEL CREEK, Mabel Bay, Head, Cordova Bay	WC 9	(88)
MAX CREEK, Max Cove, head of N. arm, Klakas Inlet, Cordova Bay	WC 4	
Naukati Bay, head of E. arm, Tuxekan Passage	WC 53	(28)
NAUKATI CREEK, Naukati Bay, N.E. head of Bay, Tuxekan Passage	WC 54	(27)
Naukati Bay, head of northernmost arm, Tuxekan Passage	WC 55	(26)
Nossuk Bay, head of Bay in S.E. corner, Tonowek Bay	WC 50	(35)
NUTKWA CREEK, Nutkwa Lagoon, Head, Nutkwa Inlet, Cordova Bay	WC 11	(55)
Port St. Nicholas, 2 miles from head on N. shore, Bucareli Bay	WC 38	(69)
Port St. Nicholas, Head, Bucareli Bay	WC 37	(49)
Port Refugio, S.E. corner, Ulloa Channel	WC 26	
Port Refugio, 0.3 mile from head on S. shore, Ulloa Channel	WC 27	(84)
PORTAGE CREEK, Portage Bay, Head, Hetta Inlet Cordova Bay	WC 14	(39)
ROSE CREEK, Rose Inlet, Head, Kaigani Strait	WC 23	
Salt Lake Bay, 0.1 mile S. of cabin, Tonowek Bay	WC 49	(36)
San Christoval Channel, 1.3 miles N. of Burnt Point	WC 47	(38)
SARKAR CREEK, Sarkar Cove, Head, El Capitan Passage	WC 56	(22)
SHAHEEN CREEK, Shaheen Flats, opposite S. tip of Tuxekan Island	WC 51	(30)
Shinaku Inlet, N. shore opposite N. tip of Wadleigh Island	WC 46	(61)
Shinaku Inlet, N.E. head of bay	WC 45	
STANEY CREEK, Tuxekan Passage, 2 miles E. of Staney Island	WC 52	(29)
STEELHEAD CREEK, Big Salt Lake, 1.5 miles N.W. of head, Shinaku Inlet	WC 43	(73)
SODA CREEK, Soda Bay, Head, Trocadero Bay, Bucareli Bay	WC 32	(50)
Sukkwan Narrows, 1.3 miles S. of Hydaburg, Sukkwan Strait	WC 18A	
Tokeen Bay, Head, Davidson Inlet	WC 68	(24)
Tokeen Bay, 2 miles from head on W. shore Davidson Inlet	WC 69	(23)
TOKEEN CREEK, Tokeen Bay, E. shore of bay, 0.3 mile from entrance, Davidson Inlet	WC 67	(25)
Tonowek Bay, 1.5 miles E. of Culebra Island	WC 48	(37)
Trocadero Bay, 1 mile from head on N. shore, Bucareli Bay	WC 36	(59)
TROCADERO CREEK, Trocadero Bay, Head, Bucareli Bay	WC 35	(58)
Trocadero Bay, 3 miles S.E. of Point Saint Sebastian, Bucareli Bay	WC 30	(64)
Trocadero Bay, head of bight 1.75 miles W. of Point Saint Sebastian, Bucareli Bay	WC 31	(65)
VAN SANT CREEK, Van Sant Cove, Head, Davidson Inlet	WC 72	(8)
VESTA CREEK, Vesta Bay, Head, Kaigani Strait	WC 22	
Warm Chuck Inlet, midway in inlet on N. shore, Tonowek Bay	WC 77	(31)

Warm Chuck Inlet, head of W. arm, Tonowek Bay	WC 78	(33)
Warm Chuck Inlet, 1.5 miles from head of W. arm, Tonowek Bay	WC 79	(34)
Warm Chuck Inlet, 3 miles from head of W. arm, Tonowek Bay	WC 80	
WATERFALL CREEK, Ulloa Channel, 0.25 mile N.E. of Waterfall Cannery	WC 19	(47)

NUMERICAL INDEX OF SALMON STREAMS

WC 1		HESSA CREEK, Hessa Inlet, head of N. arm, Eureka channel, Cordova Bay
WC 2	(45)	HUNTER CRFEK, Hunter Bay, Head, Cordova Bay
WC 3		Hunter Bay, head of N. arm, Cordova Bay
WC 4		MAX CREEK, Max Cove, head of N. arm, Klakas Inlet, Cordova Bay
WC 5		KLAKAS LAKE CREEK, Klakas Inlet, 5 miles from head of inlet, Cordova Bay
WC 6		Klakas Inlet, Head, Cordova Bay
WC 6A		Klakas Inlet, W. shore 1 mile from head, Cordova Bay
WC 6B		Klakas Inlet, W. shore 4 miles from head, Cordova Bay
WC 6C		Klakas Inlet, W. shore 6 miles from head, Cordova Bay
WC 7		CLAM CREEK, Clam Cove, Head, Kassa Inlet, Cordova Bay
WC 8		Kassa Inlet, Head, Cordova Bay
WC 9	(88)	MABEL CREEK, Mabel Bay, Head, Cordova Bay
WC 9A	(88A)	Hassiah Inlet, head of E. arm, Cordova Bay
WC 9B	(88B)	Hassiah Inlet, head of N. arm, Cordova Bay
WC 10	(53)	Keete Inlet, head of N. arm on W. shore, Cordova Bay
WC 10A		Keete Inlet, head of N. arm on E. shore, Cordova Bay
WC 10B		Keete Inlet, E. shore at mouth of N. arm, Cordova Bay
WC 10C		Keete Inlet, 3 miles S.E. of head, Cordova Bay
WC 11	(55)	NUTKWA CREEK, Nutkwa Lagoon, Head, Nutkwa Inlet, Cordova Bay
WC 12	(44)	HETTA LAKE CREEK, Hetta Cove, Head, Hetta Inlet, Cordova Bay
WC 13	(42)	COPPER CREEK, Copper Harbor, Head, Hetta Inlet, Cordova Bay
WC 14	(39)	PORTAGE CREEK, Portage Bay, Head, Hetta Inlet, Cordova Bay
WC 15	(40)	BEAVER CREEK, Hetta Inlet, N. of N.W. corner of Gould Island, Cordova Bay
WC 16	(41)	DEER CREEK, Deer Bay, Head, Hetta Inlet, Cordova Bay
WC 17	(43)	EEK LAKE CREEK, Eek Inlet, Head, Cordova Bay
WC 18		HYDABURG CREEK, Sukkwan Narrows, N. of Hydaburg, Sukkwan Strait
WC 18A		Sukkwan Narrows, 1.3 miles S. of Hydaburg, Sukkwan Strait
WC 19	(47)	WATERFALL CREEK, Ulloa Channel, 0.24 mile N.E. of Waterfall Cannery
WC 20	(89)	Datzkoo Harbor, 1.2 miles from head on N. shore, Kaigani Strait
WC 21		GRACE CREEK, Grace Harbor, Head, Kaigani Strait
WC 22		VESTA CREEK, Vesta Bay, Head, Kaigani Strait
WC 23		ROSE CREEK, Rose Inlet, Head, Kaigani Strait
WC 24	(57)	COCO CREEK, Coco Harbor, Head, Tlevak Strait
WC 25		KASOOK LAKE CREEK, Kasook Inlet, Head, Tlevak Strait
WC 26		Port Refugio, S.E. corner, Ulloa Channel
WC 27	(84)	Port Refugio, 0.3 mile from head on S. shore, Ulloa Channel
WC 28	(63)	ESTRELLA CREEK, Port Estrella, Head, Bucareli Bay
WC 29	(62)	CALDERA CREEK, Port Caldera, Head, Bucareli Bay
WC 30	(64)	Trocadero Bay, 3 miles S.E. of Point Iphigenia, Bucareli Bay
WC 31	(65)	Trocadero Bay, head of bight 1.75 miles W. of Point Saint Sebastian, Bucareli Bay
WC 32	(50)	SODA CREEK, Soda Bay, Head, Trocadero Bay, Bucareli Bay

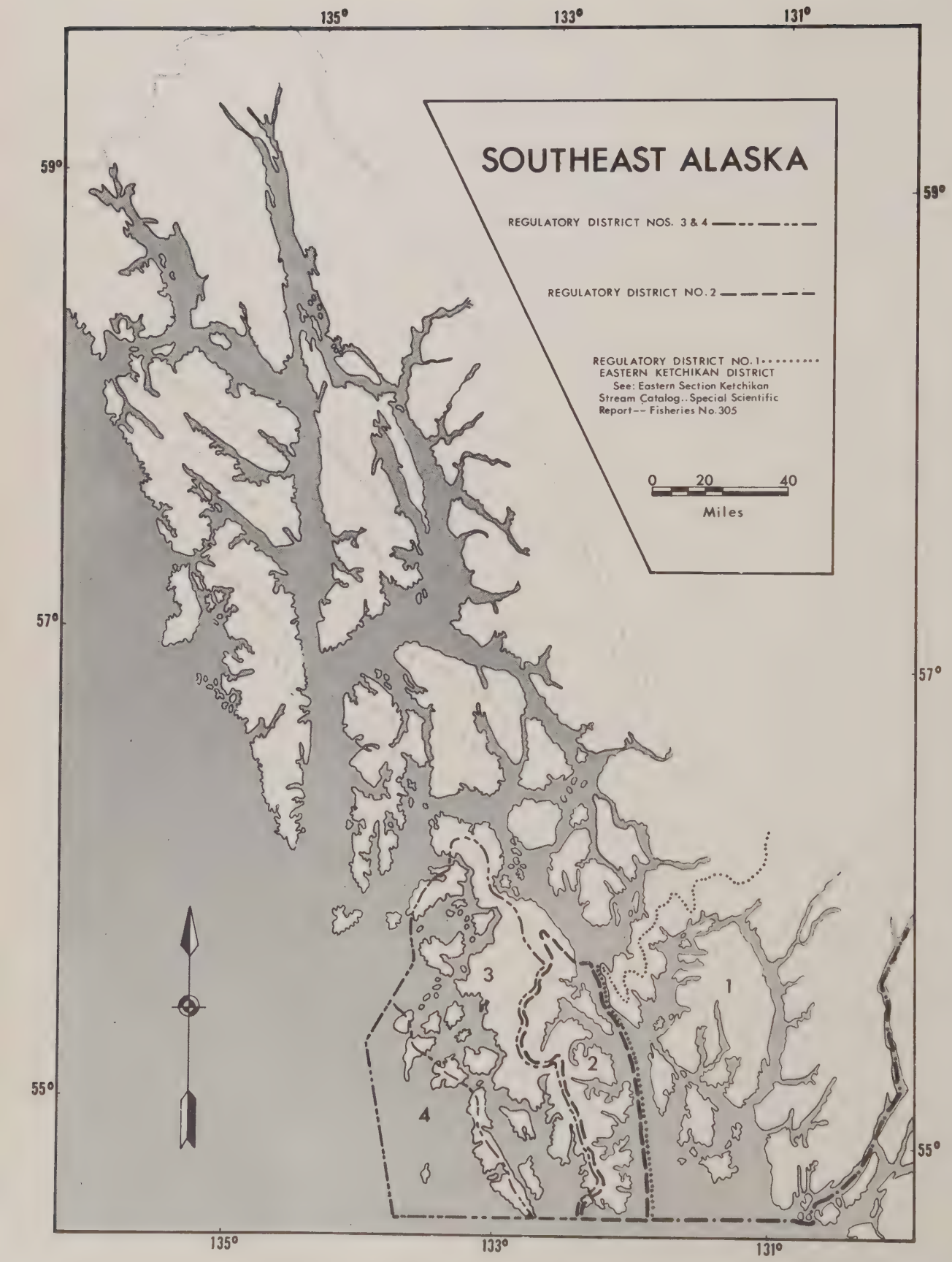
WC 35	(58)	TROCADERO CREEK, Trocadero Bay, Head, Bucareli Bay
WC 36	(59)	Trocadero Bay, 1 mile from head on N. shore, Bucareli Bay
WC 37	(49)	Port St. Nicholas, Head, Bucareli Bay
WC 38	(69)	Port St. Nicholas, 2 miles from head on N. shore, Bucareli Bay
WC 39	(60)	KLAWAK CREEK, Klawak Harbor, Head, Klawak Inlet
WC 40	(72)	DOG SALMON CREEK, Big Salt Lake, 2.3 miles from head on S. shore, Shinaku Inlet
WC 41	(51)	Big Salt Lake, Head, Shinaku Inlet
WC 42	(74)	Big Salt Lake, 1 mile N. of head, Shinaku Inlet
WC 43	(73)	STEELHEAD CREEK, Big Salt Lake, 1.5 miles N.W. of head, Shinaku Inlet
WC 44	(52)	Big Salt Lake, 2 miles N.W. of head, Shinaku Inlet
WC 45		Shinaku Inlet, N.E. head of bay
WC 46	(61)	Shinaku Inlet, N. shore opposite N. tip of Wadleigh Island chain
WC 47	(38)	San Christoval Channel, 1.3 miles N. of Burnt Point
WC 48	(37)	Tonowek Bay, 1.5 miles E. of Culebra Island
WC 49	(36)	Salt Lake Bay, 0.1 mile S. of cabin, Tonowek Bay
WC 50	(35)	Nossuk Bay, head of bay in S.E. corner, Tonowek Bay
WC 51	(30)	SHAHEEN CREEK, Shaheen Flats, opposite S. tip of Tuxekan Island
WC 52	(29)	STANEY CREEK, Tuxekan Passage, 2 miles E. of Staney Island
WC 53	(28)	Naukati Bay, head of E. arm, Tuxekan Passage
WC 54	(27)	NAUKATI CREEK, Naukati Bay, N.E. head of bay, Tuxekan Passage
WC 55	(26)	Naukati Bay, head of northernmost arm, Tuxekan Passage
WC 56	(22)	SARKAR CREEK, Sarkar Cove, Head, El Capitan Passage
WC 57	(21)	CAMP TAYLOR CREEK, Sarheen Cove, Head, El Capitan Passage
WC 65	(20)	Devilfish Bay, N. shore at entrance El Capitan Passage
WC 66	(19)	DEVILFISH CREEK, Devilfish Bay, Head, El Capitan Passage
WC 67	(25)	TOKEEN CREEK, Tokeen Bay, E. shore of bay, 0.3 mile from entrance, Davidson Inlet
WC 68	(24)	Tokeen Bay, Head, Davidson Inlet
WC 69	(23)	Tokeen Bay, 2 miles from head on W. shore, Davidson Inlet
WC 70	(9)	HOLBROOK CREEK, Holbrook Bay, Head, Davidson Inlet
WC 71	(10)	Holbrook Bay, 0.3 mile from head on W. shore, Davidson Inlet
WC 72	(8)	VAN SANT CREEK, Van Sant Cove, Head, Davidson Inlet
WC 73	(7)	Davidson Inlet, 2 miles N. of Limestone Point
WC 74	(4)	EDNA CREEK, Edna Bay, head of N. arm, Davidson Inlet
WC 75	(5)	Edna Bay, 1 mile S.W. of head, Davidson Inlet
WC 76	(6)	Edna Bay, S.W. corner of bay, Davidson Inlet
WC 77	(31)	Warm Chuck Inlet, midway in inlet on N. shore, Tonowek Bay
WC 78	(33)	Warm Chuck Inlet, head of W. arm, Tonowek Bay
WC 79	(34)	Warm Chuck Inlet, 1.5 miles from head of W. arm, Tonowek Bay
WC 80		Warm Chuck Inlet, 3 miles from head of W. arm, Tonowek Bay

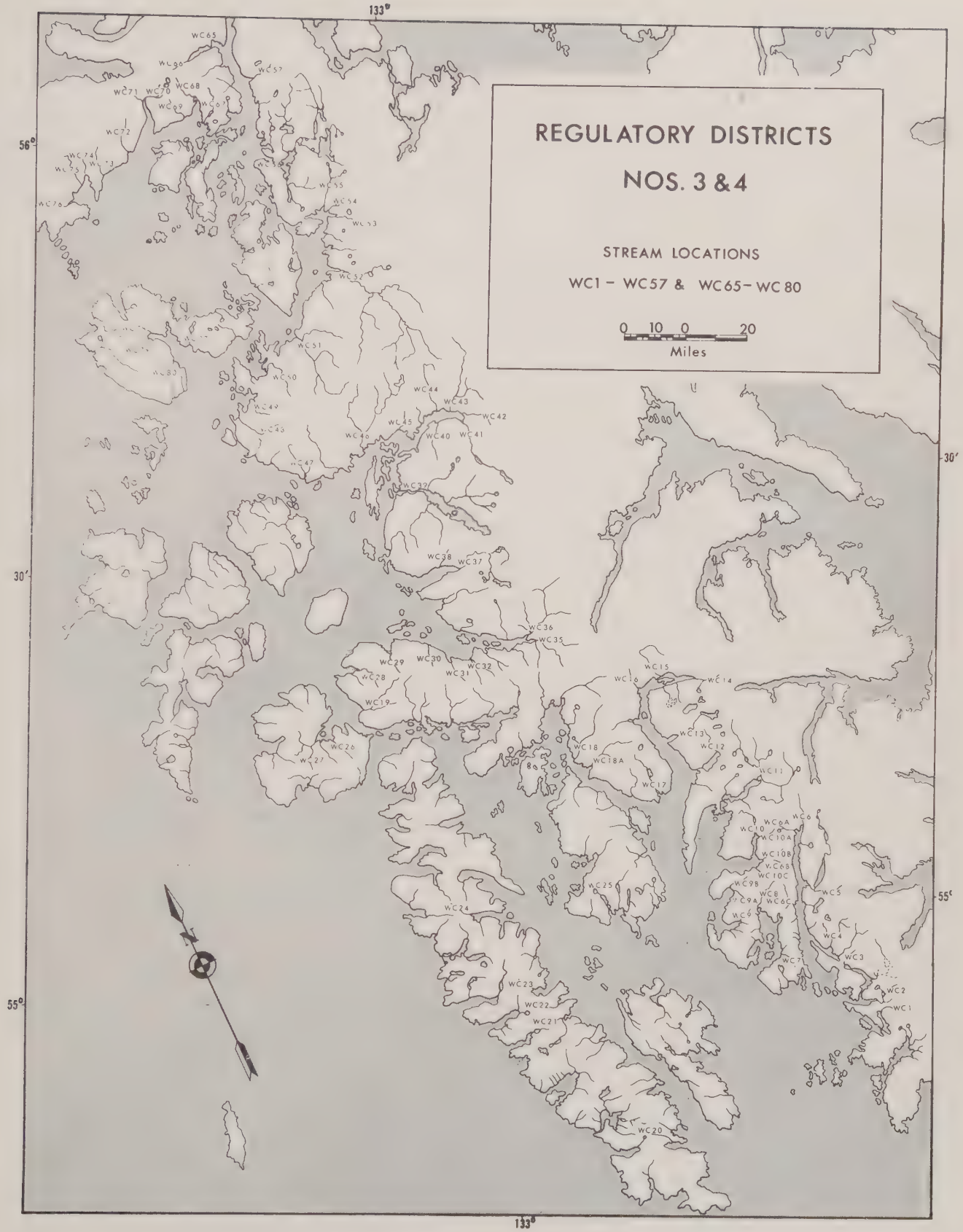
122-11		
Tonowek Bay, 1.5 miles E. of Culebra Island	WC 48	(37)
Salt Lake Bay, 0.1 mile S. of cabin, Tonowek Bay	WC 49	(36)
122-13		
ESTRELLA CREEK, Port Estrella, Head, Bucareli Bay	WC 28	(63)
122-14		
Port Refugio, S.E. corner, Ulloa Channel	WC 26	
Port Refugio, 0.3 mile from head on S. shore, Ulloa Channel	WC 27	(84)
122-20		
CALDERA CREEK, Port Caldera, Head, Bucareli Bay	WC 29	(62)
Trocadero Bay, 3 miles S.E. of Point Iphigenia, Bucareli Bay	WC 30	(64)
Trocadero Bay, head of bight 1.75 miles W. of Point Saint Sebastian, Bucareli Bay	WC 31	(65)
SODA CREEK, Soda Bay, Head, Trocadero Bay, Bucareli Bay	WC 32	(50)
TROCADERO CREEK, Trocadero Bay, Head, Bucareli Bay	WC 35	(58)
Trocadero Bay, 1 mile from head on N. shore, Bucareli Bay	WC 36	(59)
Port St. Nicholas, Head, Bucareli Bay	WC 37	(49)
Port St. Nicholas, 2 miles from head on N. shore, Bucareli Bay	WC 38	(69)
KLAWAK CREEK, Klawak Harbor, Head, Klawak Inlet	WC 39	(60)
DOG SALMON CREEK, Big Salt Lake, 2.3 miles from head on S. shore, Shinaku Inlet	WC 40	(72)
Big Salt Lake, Head, Shinaku Inlet	WC 41	(51)
Big Salt Lake, 1 mile N. of head, Shinaku Inlet	WC 42	(74)
STEELHEAD CREEK, Big Salt Lake, 1.5 miles N.W. of head, Shinaku Inlet	WC 43	(73)
Big Salt Lake, 2 miles N.W. of head, Shinaku Inlet	WC 44	(52)
Shinaku Inlet, N.E. head of bay	WC 45	(72)
Shinaku Inlet, N. shore opposite N. tip of Wadleigh Island chain	WC 46	(61)
San Christoval Channel, 1.3 miles N. of Burnt Point	WC 47	(38)
122-31		
SHAHEEN CREEK, Shaheen Flats, opposite S. tip of Tuxekan Island, Tuxekan Passage	WC 51	(30)
STANEY CREEK, Tuxekan Passage, 2 miles E. of Staney Island	WC 52	(29)
Naukati Bay, head of E. arm, Tuxekan Passage	WC 53	(28)
NAUKATI CREEK, Naukati Bay, N.E. head of bay, Tuxekan Passage	WC 54	(27)
Naukati Bay, head of northernmost arm, Tuxekan Passage	WC 55	(26)
Devilfish Bay, N. shore at entrance, El Capitan Passage	WC 65	(20)
DEVILFISH CREEK, Devilfish Bay, Head, El Capitan Passage	WC 66	(19)
TOKEEN CREEK, Tokeen Bay, E. shore of bay 0.3 mile from entrance Davidson Inlet	WC 67	(25)
Tokeen Bay, Head, Davidson Inlet	WC 68	(24)
Tokeen Bay, 2 miles from head on W. shore, Davidson Inlet	WC 69	(23)
HOLBROOK CREEK, Holbrook Bay, Head, Davidson Inlet	WC 70	(9)
Holbrook Bay, 0.3 mile from head on W. shore, Davidson Inlet	WC 71	(10)
VAN SANT CREEK, Van Sant Cove, Head, Davidson Inlet	WC 72	(8)
Davidson Inlet, 2 miles N. of Limestone Point	WC 73	(7)

EDNA CREEK, Edna Bay, head of N. arm, Davidson Inlet	WC 74	(4)
Edna Bay, 1 mile S.W. of head, Davidson Inlet	WC 75	(5)
Edna Bay, S.W. corner of bay, Davidson Inlet	WC 76	(6)
122-32		
Nossuk Bay, head of bay in S.E. corner, Tonowek Bay	WC 50	(35)
Warm Chuck Inlet, midway in inlet on N. shore, Tonowek Bay	WC 77	(31)
Warm Chuck Inlet, head of W. arm, Tonowek Bay	WC 78	(33)
Warm Chuck Inlet, 1.5 miles from head of W. arm, Tonowek Bay	WC 79	(34)
Warm Chuck Inlet, 3 miles from head of W. arm, Tonowek Bay	WC 80	
122-51		
SARKAR CREEK, Sarkar Cove, Head, El Capitan Passage	WC 56	(22)
CAMP TAYLOR CREEK, Sarheen Cove, Head, El Capitan Passage	WC 57	(21)
123-11		
COCO CREEK, Coco Harbor, Head, Tlevak Strait	WC 24	(57)
123-12		
WATERFALL CREEK, Ulloa Channel, 0.25 mile N.E. of Waterfall Cannery	WC 19	(47)
Datzkoo Harbor, 1.2 miles from head on N. shore, Kaigani Strait	WC 20	(89)
GRACE CREEK, Grace Harbor, Head, Kaigani Strait	WC 21	
VESTA CREEK, Vesta Bay, Head, Kaigani Strait	WC 22	
ROSE CREEK, Rose Inlet, Head, Kaigani Strait	WC 23	
KASOOK LAKE CREEK, Kasook Inlet, Head, Tlevak Strait	WC 25	
123-21		
HETTA LAKE CREEK, Hetta Cove, Head, Hetta Inlet, Cordova Bay	WC 12	(44)
COPPER CREEK, Copper Harbor, Head, Hetta Inlet, Cordova Bay	WC 13	(42)
PORTAGE CREEK, Portage Bay, Head, Hetta Inlet, Cordova Bay	WC 14	(39)
BEAVER CREEK, Hetta Inlet, N. of N.W. corner of Gould Is., Cordova Bay	WC 15	(40)
DEER CREEK, Deer Bay, Head, Hetta Inlet, Cordova Bay	WC 16	(41)
EEK LAKE CREEK, Eek Inlet, Head, Cordova Bay	WC 17	(43)
HYDABURG CREEK, Sukkwan Narrows, N. of Hydaburg, Sukkwan Strait	WC 18	
Sukkwan Narrows, 1.3 miles S. of Hydaburg, Sukkwan Strait	WC 18A	
123-22		
CLAM CREEK, Clam Cove, Head, Kassa Inlet, Cordova Bay	WC 7	
Kassa Inlet, Head, Cordova Bay	WC 8	
MABEL CREEK, Mabel Bay, Head, Cordova Bay	WC 9	(88)
Hassiah Inlet, head of E. arm, Cordova Bay	WC 9A	(88A)
Hassiah Inlet, head of N. arm, Cordova Bay	WC 9B	(88B)
Keete Inlet, head of N. arm on W. shore, Cordova Bay	WC 10	(53)
Keete Inlet, head of N. arm on E. shore, Cordova Bay	WC 10A	
Keete Inlet, E. shore at mouth of N. arm, Cordova Bay	WC 10B	
Keete Inlet, 3 miles S.E. of head, Cordova Bay	WC 10C	
NUTKWA CREEK, Nutkwa Lagoon, Head, Nutkwa Inlet, Cordova Bay	WC 11	(55)

123-23

HESSA CREEK, Hessa Inlet, head of N. arm, Eureka Channel, Cordova Bay	WC 1	
HUNTER CREEK, Hunter Bay, Head, Cordova Bay	WC 2	
Hunter Bay, head of N. arm, Cordova Bay	WC 3	
MAX CREEK, Max Cove, head of N. arm, Klakas Inlet, Cordova Bay	WC 4	
KLAKAS LAKE CREEK, Klakas Inlet, 5 miles from head of inlet, Cordova Bay	WC 5	
Klakas Inlet, Head, Cordova Bay	WC 6	(1)
Klakas Inlet, W. shore 1 mile from head, Cordova Bay	WC 6A	
Klakas Inlet, W. shore 4 miles from head, Cordova Bay	WC 6B	
Klakas Inlet, W. shore 6 miles from head, Cordova Bay	WC 6C	


135°
133°
131°
59°
57°
55°
SOUTHEAST ALASKA
REGULATORY DISTRICT NOS. 3 & 4
REGULATORY DISTRICT NO. 2
REGULATORY DISTRICT NO. 1
EASTERN KETCHIKAN DISTRICT
See: Eastern Section Ketchikan Stream Catalog..Special Scientific Report-- Fisheries No. 305
0 20 40
Miles
1
2
3
4


REGULATORY DISTRICTS
NOS. 3 & 4
STREAM LOCATIONS
WC1 – WC57 & WC65 – WC80
0 10 0 20
Miles
133°
56°
30'
55°
WC65
WC66
WC57
WC71
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WC68
WC69
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WC10C
WC9B
WC8
WC5
WC9A
WC6C
WC9
WC4
WC3
WC7
WC2
WC1
WC25
WC24
WC23
WC22
WC21
WC20

123-23
54°49.5' N. 132°15' W.

ADF STAT. No.
WC 1
No previous FWS No.
No ADF No.

WEST COAST, EUREKA CHANNEL, HESSA INLET, Head.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho.
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good upstream.
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 7.6 square miles (polar planimeter).
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 250 yards.
AVERAGE WIDTH/DEPTH 65'/9".
GRADIENT AND VELOCITIES Moderately fast.
BOTTOM Coarse gravel and boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Terminated survey about 500 yards above tidewater.

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles.
AVERAGE WIDTH/DEPTH 30'/5"-8".
GRADIENT AND VELOCITIES
BOTTOM Good gravel of shattered shale of fairly small size with a few larger rocks.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1950								
Oct 8	G 0.3	FRI	270	365	1	1		

123-23
HUNTER CREEK
WC 2
N
0.25 Mile

123-23
54°52.2' N. 132°17.4' W.

HUNTER CREEK

ADF STAT. No.
WC 2
ADF No. 256
Previous FWS No. 1
FRI No. 45

WEST COAST, CORDOVA BAY, HUNTER BAY, Head.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho, red, trout.
ESCAPEMENT TIMING Late. Aug.-Oct.
ESCAPEMENT MAGNITUDE 80,000-100,000.
SPAWNING FACILITIES Good. Estimated spawning area 50,000 sq. yds.
STREAM TEMPERATURES Warm range. Observed temperatures: 59.5°F., 8/15/50; 63°F., 8/23/50; 55°F., 9/3/50; 53.5°F., 9/13/50; 52°F., 9/28/50; 59°F., 8/11/51; 62°F., 8/19/51; 58°F., 8/31/53; 55°F., 9/18/51; 53°F., 10/1/51; 58°F., 8/29/52; 54°F., 9/10/52; 54°F., 9/26/52; 59°F., 9/4/53; 54°F., 9/15/53; 49°F., 9/27/53.
VALLEY DESCRIPTION Flows through a broad flat. Wooded along the stream, some open ground away from the stream.
DRAINAGE 5.5 square miles (polar planimeter). Fed by numerous lakes and large muskeg areas.
STREAM MOUTH IDENTIFICATION Enters the head of a small lagoon. A bedrock outcropping is visible near the high tide mark.
ANCHORAGE Only small boats can go as far as the head of the bay. Favor the Turn Point shore in entering. A good anchorage is found 2 miles E. from the entrance in 10 to 15 fathoms.
TRAILS AND SURVEY ROUTES Best surveyed by skiff in lower part; skiffs may be lined over the first falls. Observation is difficult from the banks. A trail follows the right bank.
AERIAL SURVEY NOTES Stream difficult to survey without low flow and good light.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 80'-100'/18"-24".
GRADIENT AND VELOCITIES Steep.
BOTTOM Large boulders and bedrock.
LOW TIDE LOCATION At the foot of the 2' falls.
SCHOOLING AREAS The major schooling area is the large pool just below the high tide mark.
SPAWNING AREAS No spawning in this area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 3.5 miles to lake.
AVERAGE WIDTH/DEPTH 60'-125'/10"-33".
GRADIENT AND VELOCITIES Slow.
BOTTOM Gravel and large rocks.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES A tributary enters from the right 200 yards above the high tide mark.
SCHOOLING AREAS Many resting pools throughout the streams length.
SPAWNING AREAS Almost continuous spawning gravel is available in lower portion and intermittently above.
GENERAL NOTES The stream is generally wide and slow with a few rapids. The mile of stream between the two lakes is utilized by pink and chum; the many inlet streams to the lakes by red and coho.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 22		FWS	300,000					Excellent
1942								
Sep 17		FWS	18,000		1,000		1,000 coho	Poor
1943								
Oct 7		FWS	110,000		10,000			
1944								
Oct 10		FWS	135,000		24,000			Excellent
1945								
Sep 25		FWS	300,000		11,000			Excellent
1946								
Oct 19		FWS	600,000					Excellent
1947								
Sep 21		FWS						Water too high
1948								
Aug 13	G 2.0	ASI					1,000 red	2,000 red at mouth
Aug 20	G 1.8	ASI	75				225 red	10,000 pink in bay
Aug 27	G 2.0	ASI	9,500		100			7,500 fish at mouth
Sep 3	G 0.8	ASI	22,000					Wayer high and discolored
Sep 10	G 0.5	ASI	30,000		3,000			
Sep 16	G 1.8	ASI	85,000	200			Few coho	Few chum
Sep 28	G 2.0	ASI	90,500	1,000	5,100			Excellent
Oct 6		FWS						Excellent. Few chum
Oct 7	G 1.0	ASI						Excellent. No new fish
1949								
Aug 13		FWS	150					
Aug 27	G 2.0	FRI	20,000		0			20,000 in bay
Sep 22	G 0.1	FRI	60,000					Water high
Oct 7	G 1.5	FRI	70,000	30,000	4,000			Water high
1950								
Aug 15	G 0.8	FRI	0	0	0	0		
Aug 23	G 1.0	FRI	520		5	3		5,000-6,000 off mouth
Sep 3	G 1.0	FRI	12,100	0	300	0		
Sep 13	G 1.0	FRI	18,785	28	423	47		
Sep 28	G 1.0	FRI	11,400	1,200	50	500		
1951								
Aug 11	G 0.1	FRI	80	0	8	0		
Aug 19	G 1.0	FRI	200	0	0	0		500 at mouth
Aug 31	G 1.0	FRI	900	0	0	0		
Sep 18	G 1.0	FRI	6,150	0	290	0		
Oct 1	G 1.0	FRI	2,850	100	150	10		None off mouth
1952								
Aug 29	G 0.8	FRI	2,500	0	>300	0	100 coho	All fresh
Sep 10	G 0.8	FRI	17,000	20	600	0	100 coho	Few off mouth
Sep 26	G 0.8	FRI	10,000		1,500			Many dead chum, pink. Peak past.
1953								
June 26	G 0.5	FWS						No adult fish
Sep 5	G 0.8	FWS	1,500	0	75	0	50 coho	Probably <1,000 in bay
Sep 7	G 3.5	FWS	3,870		6			Water low. Few fish at mouth
Sep 15	G 0.3	FRI						No vis. None off mouth
Sep 27	G 0.8	FWS	9,500					Chum present. Some dead chum

HUNTER CREEK - Continued

ADF STAT. No. WC 2
ADF No. 256

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1954								
Sep 8	A 0.8	FRI	>10,000					1,000 at mouth
Sep 15	G 0.8	FRI	20,000					Few dead pink. Few off mouth
1955								
Aug 19	A 0.8	FRI	2,000					Chum present. None at mouth
Aug 28	A 0.8	FRI	>5,000					Several thousand off mouth
Sep 10	A 0.8	FRI	33,000					8,000 at mouth
Sep 19	A 0.8	FRI	50,000					Many chum. Some at mouth
Sep 25	A 0.8	FRI	35,000					Some dead pink. Many above marker
1956								
Aug 26	A 0.8	FRI	2,000					Some at mouth and in bay
Sep 9	A 0.8	FRI	10,000					Jumps in bay
Sep 20	A 0.8	FRI	35,000					40,000 to first lake
1957								
Aug 18	A 0.7	FRI	200					Some pink at and off mouth
Aug 25	A 3.0	FRI	1,000	0				Jumps in bay
Sep 8	G 0.7	FWS	0	0	0	0	1 coho	
Sep 15	A 3.0	FRI	2,000					Some chum, few pink dead
Sep 20	G 1.0	FWS	970		760		250 coho	Few dead
1958								
Sep 7	A 6.5	FWS						Fish present to second lake
1959								
Aug 17	G	ADF	1,200					
Aug 24	G	ADF	2,300		400			
Aug 25	G	ADF	1,000					
Sep 19	G	ADF	60,000		5,000			
Sep 24	G	ADF	25,000					
1961								
Aug 3	A	ADF						No fish observed in stream
Aug 19	G 1.5	ADF	2,550					500 pink at mouth. Stream low
Sep 12	A				200			Chum in inlet stream 400 off mouth in lake
Sep 14	A	ADF	1,200					Few chum. Visibility good
1962								
Aug 1	G 1.5	ADF					75 red	100 red at mouth
Aug 18	A	ADF						10,000-20,000 pink at mouth
Aug 22	G 0.7	ADF						5,000-10,000 pink at mouth, water too high and dark
Aug 26	A	ADF						Salmon present, not showing
Aug 30	G 3.5	ADF	40,000					100,000 at mouth
Sep 6	A	ADF	29,800					7,000-8,000 at mouth
Sep 10	A	ADF						None observed off mouth

123-23

54°53.8' N. 132°20' W.

ADF STAT. No.
WC 3
ADF No. 258
Previous FWS No. 1B

WEST COAST, CORDOVA BAY, HUNTER BAY, 0.5 mile from head, N. shore.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho, sockeye.
ESCAPEMENT TIMING Late. Aug.-Sep. (estimated).
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 4 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Refer to WC 2.
TRAILS AND SURVEY ROUTES Up right bank and then wade stream.
AERIAL SURVEY NOTES Cannot survey by air due to dark water and brushy banks.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 35'-40'/19".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mostly rubble with some gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off mouth to bight down right shore.
SPAWNING AREAS
GENERAL NOTES Very little intertidal spawning.

UPSTREAM

LENGTH ACCESSIBLE To lake. AVERAGE WIDTH/DEPTH 20'-25'/8".
GRADIENT AND VELOCITIES Moderate to slow.
BOTTOM Coarse gravel, rock, boulders, and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Log jam at 0.3 mile barrier at low flow.
TRIBUTARIES None.
SCHOOLING AREAS In small pools.
SPAWNING AREAS Throughout where gravel is available and in rubble.
GENERAL NOTES Not reported as one of the main streams in Hunter Bay, however amazing production in some years.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 23		FWS	8,000					Fair
1944								
Oct 10		FWS	4,500		1,000			Fair
1946								
Oct 9		FWS	25,000		4,000			Good
1947								
Sep 20		FWS	1,000		1,000			Poor
1948								
Oct 17		FWS						Good. Few chum. Pink good
1962								
Aug 18	A	ADF&G	500					Good showing at mouth
Aug 22	A	ADF&G						Fish present all way to lake
Sep 6	A	ADF&G						15,000 pink at mouth
Sep 10	A	ADF&G						1,000 pink at mouth. Visibility poor

123-23

ADF STAT. No.
WC 3
ADF No. 258

ESCAPEMENT RECORD

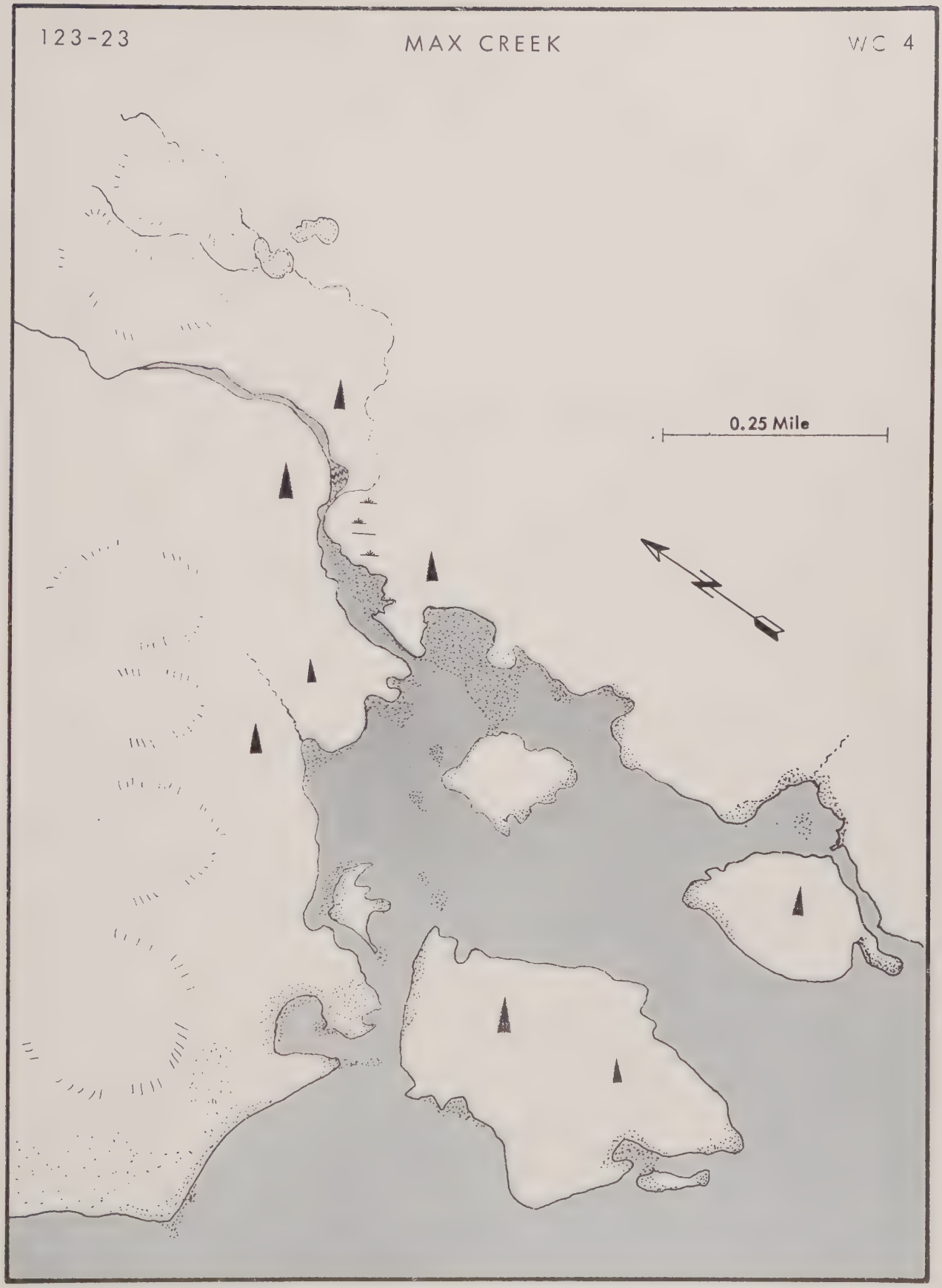
[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating

123-23

MAX CREEK

WC 4



ADF STAT. No.
WC 4
ADF No. 255
Previous FWS No. 2

123-23
54°56.7' N. 132°21.9' W.

WEST COAST, CORDOVA BAY, KLAKAS INLET, MAX COVE, Head of N. Arm.

MAJOR SPECIES Chum, pink.
OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep. -Oct.
ESCAPEMENT MAGNITUDE 8,000-12,000.
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Cold range. Observed temperatures: 50°F., 9/4/50; 48°F., 9/14/50; 51°F., 9/28/50; 50°F., 9/19/51; 51°F., 10/1/51; 49°F., 9/11/52; 51.5°F., 9/26/52; 48°F., 10/3/52; 51°F., 9/15/53; 47.5°F., 9/25/53.
VALLEY DESCRIPTION Glacial-cut. The W. side of the valley is bordered by high hills for 1 mile. At this point the valley widens.
DRAINAGE 5.1 square miles (polar planimeter). Precipitation fed. A small snowfield E. of the valley contributes snowmelt at certain times of the year.
STREAM MOUTH IDENTIFICATION Enters Max Cove about half way up the N. shore. The constricted mouth lies behind a small wooded island.
ANCHORAGE The cove affords good anchorage in 5 to 16 fathoms, mud bottom.
TRAILS AND SURVEY ROUTES Easily waded at times of normal water level.
AERIAL SURVEY NOTES Muskeg colored water makes aerial visibility poor.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 30'-50'/4".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel.
LOW TIDE LOCATION At the first constriction.
HIGH TIDE LOCATION At the second constriction.
SCHOOLING AREAS A tidal pool just below the second constriction at the mouth is utilized.
SPAWNING AREAS Good spawning gravel is found on both sides of the grass island just upstream from the mouth.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.7 mile to falls.
AVERAGE WIDTH/DEPTH 25'-30'/8".
GRADIENT AND VELOCITIES
BOTTOM Gravel, bedrock, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two falls 1 mile upstream. The first is passable, but the second is a complete block to salmon at low flow.
TRIBUTARIES Stream forks.
SCHOOLING AREAS Very few pools in stream.
SPAWNING AREAS The best spawning gravels are in the lower part of the stream. Most of the area below the falls contain coarse gravel and boulders.
GENERAL NOTES Logged off on both sides. Stream subject to high flows and subsequent scouring.

ADF STAT. No. WC 4
ADF No. 255
Previous FWS No. 2

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1950								
Sep 4	G 0.5	FRI	5	0	451	27		Fish off mouth
Sep 14	G 0.5	FRI	91	2	454	301	42 coho	
Sep 28	G 0.5	FRI	1,770	150	150	200	250 coho	Some dead coho
1951								
Sep 19	G 0.5	FRI	1,100	20	200	400		
Oct 1	G 0.5	FRI	1,550		650	200		Sev. dead pink. Most pink fresh
1952								
Sep 11	G 0.5	FRI	560	22	162	10	10 coho, 1 red	
Sep 26	G 0.3	FRI	535	>50	300		110 coho	Some dead chum. None at mouth
Oct 3	A 0.3	FRI	200		30		11 coho	Some dead chum. Many pink dead
1953								
Sep 15	G 0.3	FRI	202		350	0	50 coho	2,000-3,000 to enter
Sep 25	G 0.3	FRI	360		276		175 coho	Some dead chum, pink.
1954								
Sep 8	A 0.3	FRI	>400	0				Some in cove
Sep 16	G 0.5	FRI	780	>10	1,100	>500	60 coho	1,000 pink at mouth
Sep 25	A 0.5	FRI	1,700		700			Some dead chum, pink.
1955								
Sep 10	A 0.5	FRI	500					500 at mouth
Sep 19	A 0.5	FRI	1,500		3,500			
Sep 25	A 0.5	FRI	2,000		2,000			Some dead chum, pink.
1956								
Sep 9	A 0.5	FRI						Some pink and chum at mouth
Sep 20	A 0.5	FRI	10,000					Chum present. 3,000 at mouth
Sep 29	A 0.5	FRI	13,000					Chum present. Some dead chum
1957								
Sep 15	A 0.5	FRI	400		500			Some dead chum.
1958								
Sep 7	A 0.5	FWS						1,000 pink at mouth
1959								
Aug 17	G	ADF	2,700					
Aug 20	G	ADF	8,700		1,000			
1961								
Aug 19	G	ADF	280					350 pink and chum at mouth
Sep 12	A	ADF	1,300					Few chum. Visibility good
1962								
Aug 18	A	ADF						Stream flooding. No fish observed
Aug 26	A	ADF						Few chum. Visibility good. Fish spawning

123-23
55°00.8' N. 132°23.5' W.

KLAKAS LAKE CREEK

ADF STAT. No. WC 5
ADF No. 254
Previous FWS No. 3
FRI No. 6B

WEST COAST, CORDOVA BAY, KLAKAS INLET, 5 miles from head of inlet.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, red, coho.
ESCAPEMENT TIMING Late. Sep.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Warm range (obtained from temperatures taken twice daily in the summer of 1948).
VALLEY DESCRIPTION Flows through a flat timbered area with occasional areas of muskeg.
DRAINAGE 10.4 square miles (polar planimeter). Drains Klakas Lake.
STREAM MOUTH IDENTIFICATION Enters the head of a small bay which is 4 miles from the head of the Inlet. The bay opens toward the W.
ANCHORAGE Off stream mouth.
TRAILS AND SURVEY ROUTES Fairly easy to wade at times of low water. A good trail goes up the right bank and crosses over to the left bank above the mouth.
AERIAL SURVEY NOTES Unsuitable for aerial survey except for intertidal portion below falls.

INTERTIDAL ZONE

LENGTH 0.2 mile.
AVERAGE WIDTH/DEPTH 120'/14".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION At the foot of the first falls.
SCHOOLING AREAS Below the first falls.
SPAWNING AREAS A small area below the first falls is utilized by pinks.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.7 mile to lake.
AVERAGE WIDTH/DEPTH 30'-40'/12"-20".
GRADIENT AND VELOCITIES Moderate to rapid.
BOTTOM Bedrock, boulders, and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two falls, one at the high tide mark and the other 200 yards upstream are partial blocks. Reds and coho can ascend them, but pinks cannot.
TRIBUTARIES None reported.
SCHOOLING AREAS Numerous pools, some 6 feet deep, offer schooling areas in the first 0.5 mile.
SPAWNING AREAS The lower 0.5 mile is a series of pools and riffles. The riffles are not good spawning areas, being composed of large gravel and boulders.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1950								
Aug 24		FRI						Coho, red seen in lake
1953								
Sep 15	G 0.3	FRI	1,000				300 coho	Several chum. Poor visibility
Sep 18	G 0.1	FWS	500					2 coho, 8,000 pink below falls
1957								
Sep 4	G 0.5	FWS	2,000		0			
Sep 15	A 0.5	FRI	>5,000					Some dead pink. <10,000 chum off mouth
Sep 19	G 0.5	FWS	20,000		0		100 coho	Several thousand dead
1959								
Aug 17	A	ADF	9,500		1,500		7,000 red, 3,000 coho to date	None at mouth
Aug 20	A	ADF	5,000		0		2,500 red	
Sep 18	A	ADF	25,000		0			None at mouth

ADF STAT. No. WC 5
ADF No. 254
Previous FWS No. 3

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS Adjective rating
1961								
Aug 3	A	ADF						6,500 mixed fish to falls
Aug 16	A	ADF	1,475					3,700 pink below falls. Few red and coho
Sep 12	A	ADF	20,000					All fairly bright fish
Sep 14	A	ADF	17,000					Mature fish. Some chum
1962								
Sep 10	A	ADF						Several hundred chum

ADF STAT. No. WC 6
ADF No. 253
Previous FWS No. 4

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1945								
Sep 25		FWS	20,000					
1948								
Sep 11	G 0.5	ASI	<20,000		<8,500			Good
Sep 18	G 1.0	ASI	40,000		6,000			Excellent. Many at mouth
Sep 26	G 1.0	ASI	85,000	200	6,000	50	Few coho	Excellent. Many at mouth
Oct 5	G 1.0	ASI	33,000	52,000	12,000	17,500		Excellent
1949								
Aug 23	G 0.7	FRI	5	0		0		Jumps seen in intertidal
Sep 4	G 0.5	FRI	48		11			
Sep 22		FRI						Pink present. Visibility poor
Oct 6	G 1.0	FRI	7,000	800	1,500	500	300 coho	
1950								
Aug 15	G 0.3	FRI	0	0	0	0		
Aug 24	G 0.7	FRI	0	0	0	0		
Sep 4	G 0.7	FRI	275	0	398	2	7 coho	100 estimated off mouth
Sep 14	G 0.7	FRI	181	34	115	61	7 coho	1,000 chum, pink off mouth
Sep 29	G 1.3	FRI	6,600	325	1,000	400	2,000 coho	200-300 pink off mouth
1951								
Aug 11	G 1.0	FRI	0	0	0	0		
Aug 20	G 1.0	FRI	200	0	0	0		
Aug 30	G 0.7	FRI	203	0	1	0		
Sep 18	G 0.7	FRI	1,765	0	465	0		
Oct 1	G 0.7	FRI	3,600	400	2,900	200	450 coho	Some chum off mouth
1952								
Sep 11	G 1.3	FRI	950	0	200	0	20 coho	200 chum, 50 coho, 700 pink off mouth
Sep 15	G 0.5	FWS	1,100		200		Few coho	
Oct 3	A	FRI			<2,000			Few pink. None at mouth
1953								
Sep 8	G 1.0	FWS	25				1 red	1,000 chum, pink at mouth
Sep 15	G 0.7	FRI	500	0	410	0	>130 coho	4-500 chum, 200 coho, 300 pink off mouth
Sep 25	G 1.3	FRI	2,100		2,600		300 coho	Some dead chum and pink
1954								
Sep 8	A 1.3	FRI	400	0				Some chum. 1,000 at mouth
Sep 16	G 1.3	FRI	650	40	600	50		2,000 pink at mouth
Sep 25	A 1.3	FRI	7,000		3,000			2,000 pink at mouth
1955								
Sep 10	A 1.3	FRI	500					Many jumps in inlet
Sep 19	A 1.3	FRI	22,000					15,000 chum, pink at mouth
Sep 25	A 1.3	FRI	35,000					Some live, dead chum.
1956								
Sep 9	A 1.3	FRI						Few pink. 10,000 at mouth
Sep 20	A 1.3	FRI	10,000					Chum present. >20,000 at mouth
Sep 29	A 1.3	FRI	>25,000	2,000				Chum present. Some at mouth
1957								
May 15	A 1.3	FRI	500	0				Some chum. 2,000 pink at mouth
Aug 18	A 1.3	FRI						None observed. Jumps in inlet
1958								
Sep 7	A 1.3	FWS	7,500	0				Schooled in small pools

ADF STAT. No. WC 6
ADF No. 253
Previous FWS No. 4

ESCAPEMENT RECORD - Continued

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1960								
Aug 13	G 0.7	ADF	0		0			50 pink at mouth. Stream very low
Aug 30	A	ADF	0		0			200 pink at mouth. Vis. good
Sep 6	A	ADF	0		0			300 pink at mouth. No fish in stream
Sep 22	G 2.0	ADF	1,000		1,000			3,000 pink, chum and coho at mouth
1961								
Aug 30	A	ADF						Few pink and chum. Stream high
Sep 8	A	ADF	2,200					500 salmon at mouth. Many chum
Sep 12	A	ADF	900					in bay.
1962								
Aug 6	A 1.0	ADF						Few fish in stream. Stream low
Aug 23	G 0.7	ADF	1,200					1,000 pink at mouth
Sep 12	G 1.5	ADF	4,870		400		60 coho	40% spawning

ADF STAT. No.
WC 6
ADF No. 253
Previous FWS No. 4
FRI No. 6

123-23
55°05.3' N. 132°22.8' W.

WEST COAST, CORDOVA BAY, KLAKAS INLET, Head.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Sep.-Oct.
ESCAPEMENT MAGNITUDE 15,000-20,000.
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. Observed temperatures: 51°F., 9/4/49; 57°F., 8/15/50; 50.5°F., 8/24/50; 48°F., 9/4/50; 48°F., 9/14/50; 46°F., 9/29/50; 54°F., 8/11/51; 53°F., 8/20/51; 50°F., 8/30/51; 51°F., 9/18/51; 53°F., 10/1/51; 49.5°F., 9/11/52; 49.5°F., 9/15/53; 47°F., 9/25/53.
VALLEY DESCRIPTION A wide glacial-cut valley.
DRAINAGE 2.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The mouth lies at the head of Klakas Inlet, and flows across a long tideflat..
ANCHORAGE Refer to WC 5.
TRAILS AND SURVEY ROUTES No trails. The streambed can be waded..
AERIAL SURVEY NOTES A fair stream for aerial survey. Go up the W. side of the valley and survey down the E. side.

INTERTIDAL ZONE

LENGTH 0.5 mile.
AVERAGE WIDTH/DEPTH 80'-100'/36"-48".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel.
LOW TIDE LOCATION At first constriction.
HIGHT TIDE LOCATION Brush line.
SCHOOLING AREAS School throughout.
SPAWNING AREAS The upper 300' offers good spawning facilities and is utilized heavily by pinks and cohos.
GENERAL NOTES Dark algae-covered bottom makes aerial surveys difficult on this portion.

UPSTREAM

LENGTH ACCESSIBLE 2 miles.
AVERAGE WIDTH/DEPTH 15'-30'/6"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel, sand, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Beaver dams in the first 0.5 mile above tidewater. Above this, single channel stream.
TRIBUTARIES A good spawning tributary enters from the W. near the midtide mark.
SCHOOLING AREAS Pools are interspersed with the riffles.
SPAWNING AREAS Good spawning is available and utilized well above the dams.
GENERAL NOTES The stream bed breaks into several channels 100 yards above the intertidal zone. Numerous windfalls across the stream.

ADF STAT. No.
WC 6A
ADF No. 252
Previous FWS No. 4A

123-23
55°04.8' N. 132°24' W.

WEST COAST, CORDOVA BAY, KLAKAS INLET, head, W. shore.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Sep.-Oct. (estimated).
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 1.9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Not suitable for aerial survey.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM Fairly small gravel. Sand, mud, and boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.5 mile.
AVERAGE WIDTH/DEPTH 13'/14".
GRADIENT AND VELOCITIES Moderate to swift.
BOTTOM Sand, gravel, boulders, and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Falls 0.5 mile.
TRIBUTARIES None.
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1948								
Sep 26		ASI						10,000, mostly pink
Oct 5		ASI						10,000, mostly pink
1950								
Sep 29	G 0.1	FRI	375	11	57	1		
1954								
Sep 25	A	FRI						Estimated 5,000 at falls Seals after salmon
1960								
Sep 22	G0.5	ADF	50		200			300 chum at mouth

ADF STAT. No.
WC 6B
ADF No. 251
Previous FWS No. 4B

123-23
55°02.7' N. 132°25' W.

WEST COAST, CORDOVA BAY, KLAKAS INLET, W. shore 4 miles from head.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho.
ESCAPEMENT TIMING Late Sep. -Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. Observed temperatures: 52°F., 9/14/50; 47.5°F., 9/29/50; 55°F., 8/11/51; 53°F., 8/20/51; 56°F., 8/30/51; 51°F., 9/18/51; 52°F., 10/1/51.
VALLEY DESCRIPTION
DRAINAGE 1.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Off mouth in 6 fathoms.
TRAILS AND SURVEY ROUTES Walk up streambed.
AERIAL SURVEY NOTES Cannot be surveyed by air due to heavy cover.

INTERTIDAL ZONE

LENGTH 0.1 mile.
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS In the upper 0.1 mile.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Gravel and some bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

123-23

ADF STAT. No.
WC 6B
ADF No. 251
Previous FWS No. 4B

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1948								
Sep 26		ASI						Very good. 15,000, mostly pink
Oct 5		ASI						Very good
1950								
Sep 4	G 0.1	FRI						No salmon seen
Sep 14	G 0.1	FRI	0		0			500-600 chum, pink off mouth
Sep 29	G 0.3	FRI	1,400	106	505	56	15 coho	
1951								
Aug 11	G 0.5	FRI	0	0	0	0		
Aug 20	G 1.0	FRI	0	0	0	0		
Sep 18	G 0.3	FRI	356	0	26	0		
Oct 1	G 0.3	FRI	3,100	350	1,150	120		Some off mouth
1960								
July 12	A	ADF	0		0			2,500 red at mouth
July 28	G	ADF	0		0			None at mouth
Aug 5	G	ADF	0		0			None at mouth
Aug 17	A	ADF	0		0			None at mouth
Sep 2	A	ADF	0		0			None at mouth. No fish over falls
Sep 22	G	ADF	0		0			None at mouth. Water high
1962								
Aug 18	G 0.2	ADF						Stream practically dry

ADF STAT. No.
WC 6C
ADF No. 250
Previous FWS No. 4C

123-23
55°00.1' N. 132°25.8' W.

WEST COAST, CORDOVA BAY, KLAKAS INLET, W. shore 6 miles from head.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Sep.-Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range.
VALLEY DESCRIPTION
DRAINAGE 1.6 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Off mouth in 6 fathoms.
TRAILS AND SURVEY ROUTES Walk up streambed.
AERIAL SURVEY NOTES Cannot be surveyed by air due to heavy cover.

INTERTIDAL ZONE

LENGTH 0.2 mile.
AVERAGE WIDTH/DEPTH 15'/4".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel, sand, mud, and bedrock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS In the upper 0.1 mile.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.7 mile.
AVERAGE WIDTH/ DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel, some bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None observed.
TRIBUTARIES
SCHOOLING AREAS In holes between riffles.
SPAWNING AREAS
GENERAL NOTES Stream flows through an old logging area and has many downfalls. Stream subject to high streamflows.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

SURVEYED			PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective rating
1948								
Sep 11		ASI	1,000		500			
Sep 26		ASI	10,000		5,000			Very good
Oct 5		ASI						Same as last week
1950								
Sep 3		FRI						Many jumps off bay. Not surveyed
1960								
Aug 30	A	ADF	0		0			None at mouth - chum showing in bay
Sep 6	A	ADF	0		0			No chum at mouth
Sep 22	G 0.7	ADF	200		150			250 pink and chum at mouth. All fish spawning
1961								
Aug 3	A	ADF						Fish in bay

123-22
54°56.3' N. 132°28.4' W.

CLAM CREEK

ADF STAT. No.
WC 7
No ADF No.
FWS No. 25

WEST COAST, CORDOVA BAY, KASSA INLET, CLAM COVE, Head.

MAJOR SPECIES Pink.
OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep. -Oct. (estimated).
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 0.3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream is on the right hand side of the bay about 0.25 mile to the NE. from the narrows.
ANCHORAGE Good anchorage for small craft can be found on either side of the inlet about 2 miles inside the entrance. Enter with caution, numerous rocks.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES A small overgrown stream which cannot be surveyed from the air.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Due to the stream's small size, most of the spawning takes place in the intertidal zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.2 mile.
AVERAGE WIDTH/DEPTH 10'/36"
GRADIENT AND VELOCITIES
BOTTOM Gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Falls, one 250' from the mouth and another 1 mile upstream, are total blocks to salmon.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES A very short stream.

CLAM CREEK--Continued

ESCAPEMENT RECORD

ADF STAT. No. WC 7
No ADF No.
Previous FWS No. 25

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
		FWS	3,000		750			
1942								
Sep 18		FWS	10,000		15,000			Excellent
1943								
Oct 8		FWS	4,000		6,000			Excellent
1944								
Oct 9		FWS	10,000		7,500			Excellent
1945								
Sep 25		FWS	3,000		400			Excellent
1946								
Oct 19		FWS	18,000		11,000			Excellent
1948								
Oct 3	G 0.3	ASI	7,000	2,000	2,000	1,000		Excellent
1959								
Aug 20	A	ADF	600		250			None at mouth
Sep 7	A	ADF	0		0			None at mouth. 700 dead chum at mouth
1960								
Sep 1	G 0.5	ADF	0		0			150 chum at mouth
1961								
Aug 7	G 0.2	ADF						No fish observed at mouth

ADF STAT. No.
WC 8
ADF No. 249
Previous FWS No. 5

123-22
55°00.2' N. 132°30.1' W.

WEST COAST, CORDOVA BAY, KASSA INLET, Head.

MAJOR SPECIES Pink, chum.
ESCAPEMENT TIMING Late. Sep. -Oct.
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 1.9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

ESCAPEMENT RECORD

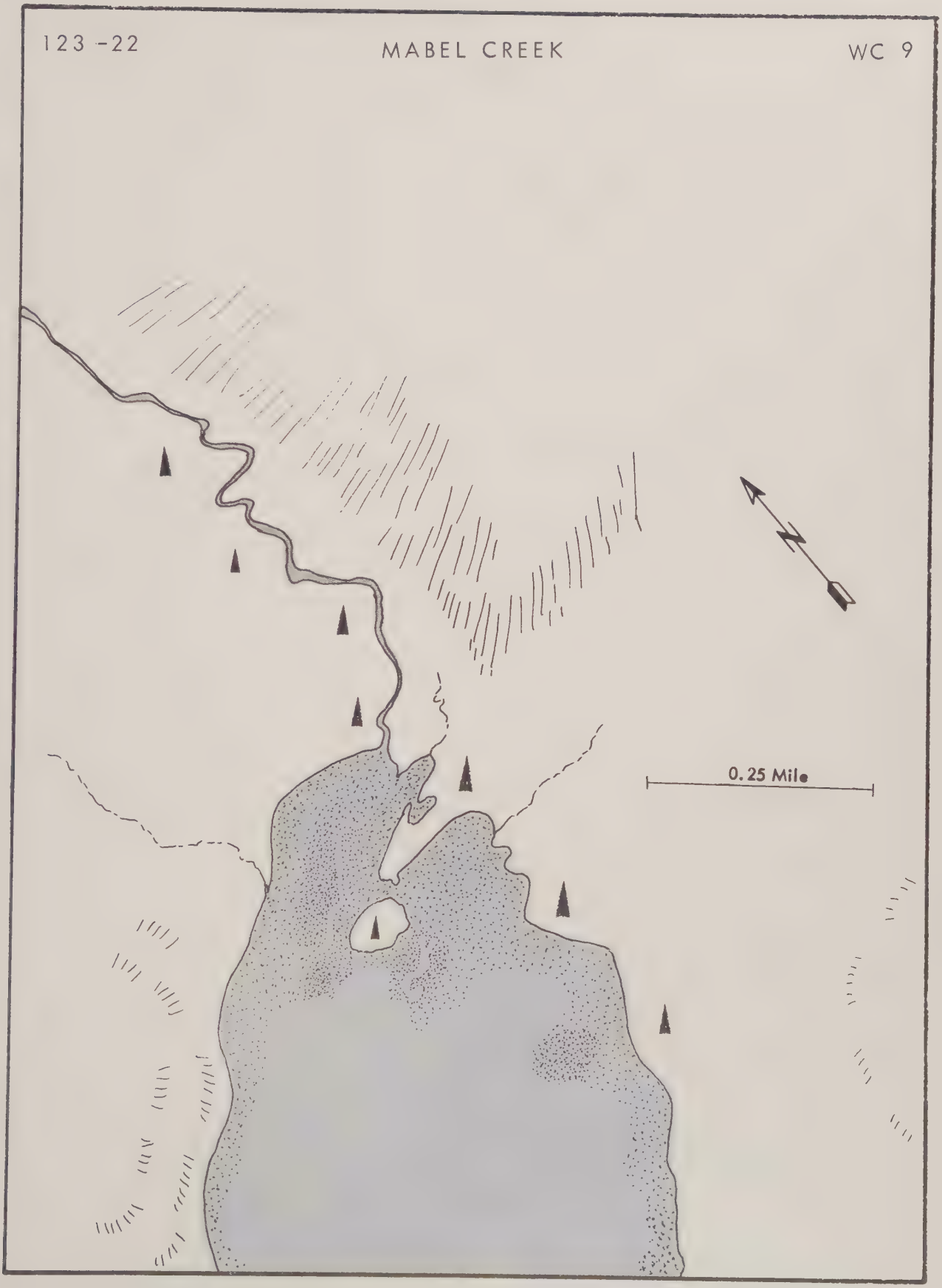
[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective	REMARKS rating
1941									
		FWS	5,000		2,000				
1942									
Sep 18		FWS	1,500		500				
1943									
Oct 7		FWS	40,000		10,000			Good	
1944									
Oct 9		FWS	5,000		250			Poor	

123 -22

MABEL CREEK

WC 9



123-22
54°59.2' N. 132°32.1' W.

MABEL CREEK

ADF STAT. No. WC 9
ADF No. 248
Previous FWS No. 6
Previous FRI No. 88

WEST COAST, CORDOVA BAY, MABEL BAY, Head.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep.-Oct. (estimated).
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Glacial-cut. The stream runs along the E. side of the heavily wooded valley. Some open ground is found W. of the stream.
DRAINAGE 1.9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream enters the head of Mabel Bay on the N. side of a small wooded peninsula. A short tidal flat.
ANCHORAGE Anchor about 0.2 mile from the islet at the head of the bay.
TRAILS AND SURVEY ROUTES Wade up the creekbed.
AERIAL SURVEY NOTES Small and overgrown, poor for aerial survey.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM Small gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS The major schooling area is at the mouth.
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.3 mile.
AVERAGE WIDTH/DEPTH 15'-25'/6"-10".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES None.
SCHOOLING AREAS Few pools are available for schooling. Fish school in all deep areas.
SPAWNING AREAS Spawning takes place throughout.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1942		---						
Sep 18		FWS	1,500		500			
1946								
Oct 18		FWS	90,000		10,000			Excellent
1948								
Oct 7		FWS	20,000		4,000			Good
Oct 15	G0.5	ASI	15,000		3,000			Excellent
1953								
Sep 9	G0.1	FWS	10		3			Stream flooding

123-22

WC9A

123-22
55°01.4' N. 132°32.4' W.

ADF STAT. No.
WC 9A
Previous No. 88A

WEST COAST, CORDOVA BAY, HASSIAH INLET, Head of E. arm.

MAJOR SPECIES Pink.
OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep. -Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 2.3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

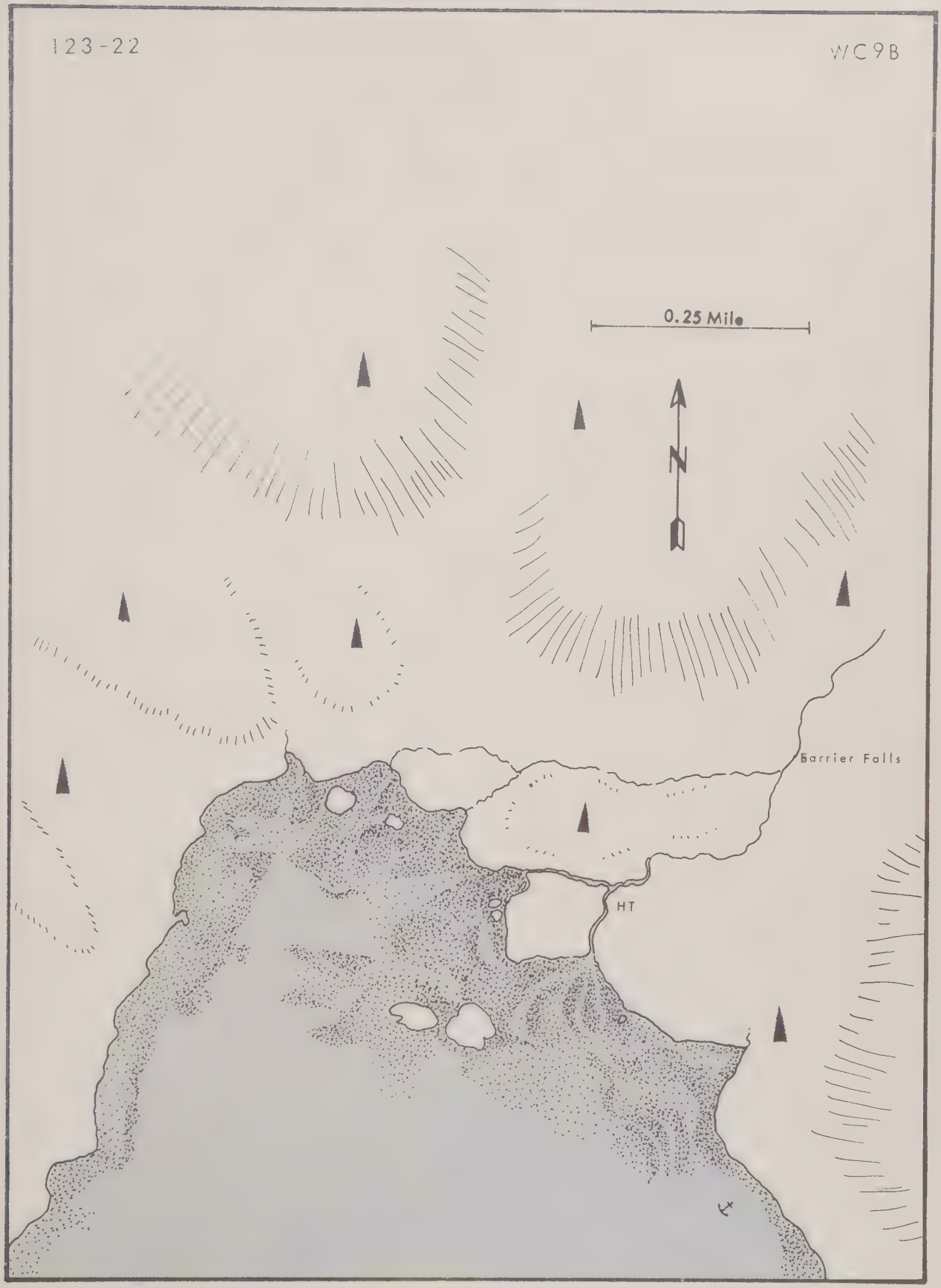
UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1942								
Sep 18		FWS	1,000		800			
1946								
Oct 18		FWS	18,000		4,000			Good
1953								
Sep 9	G 0.1	FWS			5			


123-22
WC9B
0.25 Mile
N
Barrier Falls
HT

123-22
55°01.8' N. 132°32.8' W.

ADF STAT. No.
WC 9B
Previous No. 88B

WEST COAST, CORDOVA BAY, HASSIAH INLET, Head of N. Arm.

MAJOR SPECIES
OTHER SPECIES
ESCAPEMENT TIMING Late. Sep. (estimated).
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 0.5 square mile (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream enters the left corner of the head of Hassiah Inlet.
ANCHORAGE Same as for WC 9.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

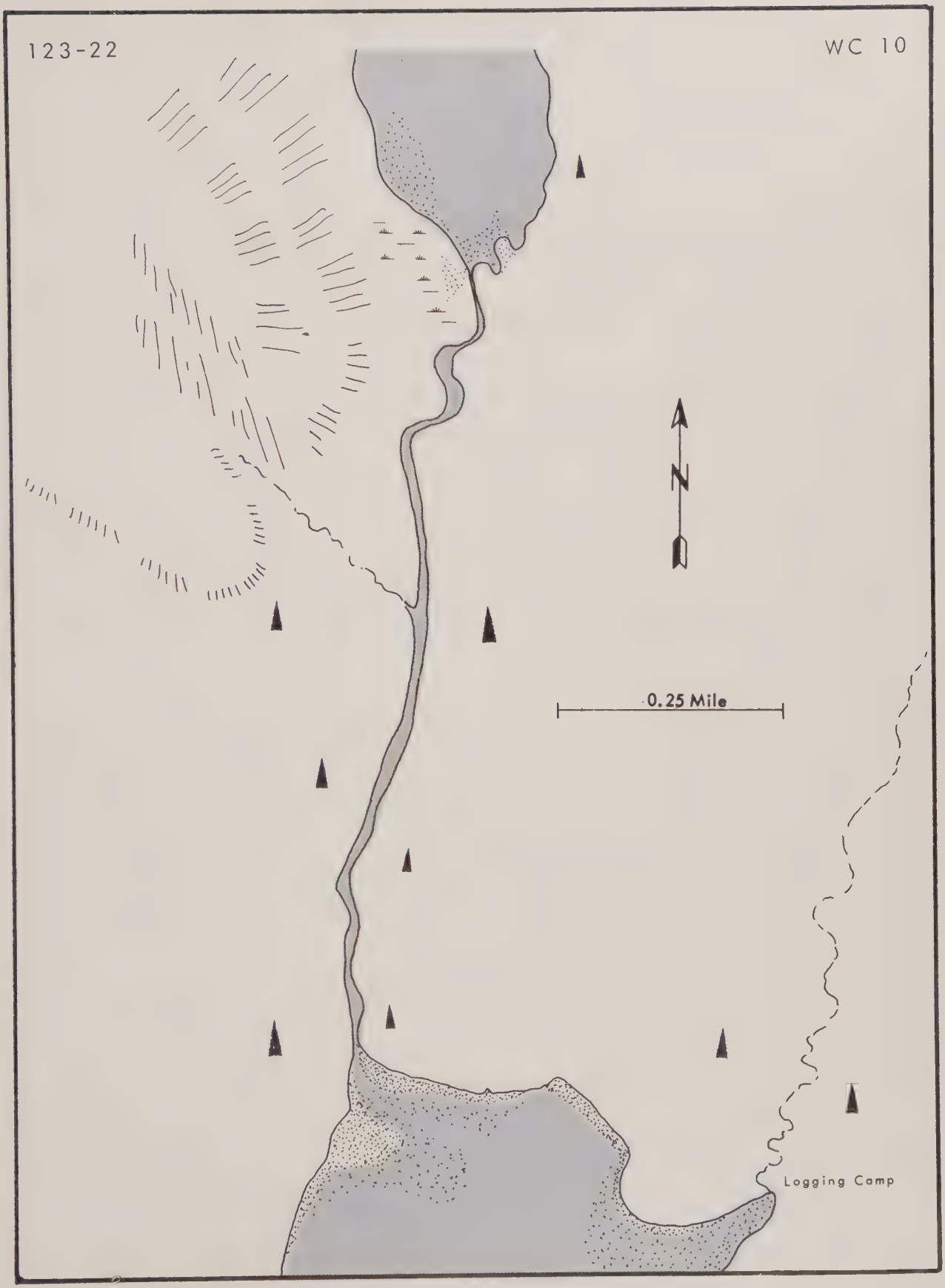
UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM Gravel in lower 0.3 mile becoming rocky above.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two falls 0.5 mile upstream are impassable.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1953								
Sep 9	G 0.1	FWS			15			Stream high


123-22
WC 10
N
0.25 Mile
Logging Camp

ADF STAT. No.
WC 10
ADF No. 245
Previous FWS No. 7
Previous FRI No. 53

23-22
55°05.2' N. 132°29' W.

WEST COAST CORDOVA BAY, KEETE INLET, Head of N. Arm.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho, red.
ESCAPEMENT TIMING Late. Sep.-Oct. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. Observed temperatures: 63°F., 9/4/49; 56°F., 8/16/50; 53°F., 8/26/50; 51.5°F., 9/5/50; 53.5°F., 9/15/50; 45°F., 9/30/50; 59°F., 9/19/51; 48°F., 10/2/51; 58°F., 8/29/52; 53.5°F., 9/12/52; 52.5°F., 9/25/52; 52°F., 10/3/52; 56°F., 9/5/53; 52°F., 9/16/53; 49°F., 9/27/53.
VALLEY DESCRIPTION Glacial-cut with steep-sided mountains along the N. side. Flows almost down the middle of the flat valley bottom. Heavily forested.
DRAINAGE 4 square miles (polar planimeter). Precipitation fed. The stream drains a small lake 0.5 mile long and 0.25 mile wide. A snowfield is found at the upper end of the valley.
STREAM MOUTH IDENTIFICATION The mouth lies at the head of the N. arm of Keete Inlet and enters the N.W. corner.
ANCHORAGE
TRAILS AND SURVEY ROUTES In the lower part the stream can be waded, but upstream the banks must be followed.
AERIAL SURVEY NOTES A good stream to survey at low water periods. Becomes highly colored when raining.

INTERTIDAL ZONE

LENGTH 0.2 mile. AVERAGE WIDTH/DEPTH 30'/10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and large rock.
LOW TIDE LOCATION
HIGH TIDE LOCATION At pool where stream narrows to enter timber.
SCHOOLING AREAS Salmon school from the high tide mark to a point a short distance off the mouth. Left shore.
SPAWNING AREAS The bottom consists largely of fine sediments and offers poor spawning facilities.
GENERAL NOTES Spawning has been reported to take place on the gravel beaches off the mouth.

UPSTREAM

LENGTH ACCESSIBLE 1 mile to lake. AVERAGE WIDTH/DEPTH 20'-30'/8"-10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Boulders, gravel, and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Beaver dams in the first 0.3 mile below lake.
TRIBUTARIES None.
SCHOOLING AREAS Many small pools are available throughout the streams length. The upper part of the stream consists mainly of slow water.
SPAWNING AREAS The best spawning area is in the lower half mile, above this the bottom composition is largely bedrock and boulders, but is still utilized.
GENERAL NOTES

123-22

ADF STAT. No. WC 10
ADF No. 245
Previous FWS No. 7
FRI No. 53

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1930								
Oct 11	Weir	USBF	15,929		12,200		1,647 coho, 70 red	Final total. Weir installed July 21
1940								
Sep 23		FWS	45,000		20,000			Good
1941								
Sep 19		FWS	7,000				30,000 red	
1942								
Sep 19		FWS	15,000		5,000			Fair
1944								
Oct 8		FWS	250,000		125,000			Excellent
1945								
Sep 26		FWS	45,000		15,000			Good
1948								
Aug 25	G 1.5	ASI	0		0			2,100 off mouth
Sep 1	G 1.0	ASI	5,500					
Sep 8	G 0.8	ASI	3,500					Appears robbed
Sep 15	G 1.0	ASI	3,750					Few chum. Water low
Sep 24	G 1.0	ASI	20,000		2,400			10,000 off mouth
Oct 2	G 1.0	ASI	37,000	8,000	8,000	3,000		Water low
Oct 13	G 1.0	ASI	70,000	65,000	4,500	12,000		10,000 off mouth
1949								
Aug 16	G 0.5	FRI	0	0	0	0		
Sep 4	G 1.0	FRI	300	0	21	0		
Sep 19	G 1.0	FRI	5,340	157	1,100	47		Killing made by predators
Oct 4	G 1.0	FRI	21,070	3,669	3,460	1,575		
1950								
Aug 16	G 1.0	FRI	0	0	0	0		
Aug 26	G 1.0	FRI	10	0	192	0	1,555 red	
Sep 5	G 1.0	FRI	580	0	750	0	4 coho	
Sep 15	G 1.0	FRI	12,445	7	4,054	19	77 coho	15,000 off mouth
Sep 30	G 1.0	FRI	11,000	2,400	14,000	3,300		
1951								
Sep 19	G 1.0	FRI	4,120	0	2,660	80		Schools off mouth
Oct 2	G 1.0	FRI	4,700	400	4,530	1,450		4,000 chum, pink off mouth
1952								
Aug 29	G 1.0	FRI	350	0	30	0		All fresh. Several hundred off mouth
Sep 12	G 1.0	FRI	1,550	3	450	18	110 coho	500 salmon off mouth
Sep 25	G 1.0	FRI	6,300	>250	5,150	>230		Several thousand chum off mouth
Oct 3	G 1.0	FRI	2,300		6,300	1,500		Many dead pink
1953								
Aug 20	A	FWS						No fish seen
Sep 5	G 0.5	FRI	70	0				About 2,000 pink off mouth.
Sep 9	G 1.0	FWS	2,100		300		50 coho	Few chum, pink at mouth.
1954								
Sep 8	A 1.0	FRI	900	0				Some chum. Several thousand at mouth
Sep 16	G 1.0	FRI	810		200			Some dead chum, 1,000 chum, 4,000 pink in mouth
Sep 25	A 1.0	FRI	7,000		3,500			Some dead chum, pink. 1,000 pink at mouth
1955								
Sep 19	A 1.0	FRI	15,000		30,000			100,000 chum near mouth
Sep 25	A 1.0	FRI	15,000		30,000			Some dead chum. Many in lake

ESCAPEMENT RECORD - Continued

ADF STAT. No. WC 10
ADF No. 245
Previous FWS No. 7
FRI No. 53

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1956								
Sep 9	A 1.0	FRI	200					40,000 pink at mouth
Sep 20	A 1.0	FRI	>40,000					Chum present. 100,000 at mouth
Sep 29	A 1.0	FRI	45,000					Many dead pink. Some at mouth
1957								
Sep 5	G 1.0	FWS	300		600			Many jumps. Water murky
Sep 15	A 1.0	FRI	200	0				>15,000 pink, few chum at mouth
1958								
Sep 7	A 1.0	FWS						1,000 pink schooled off mouth
1961								
Aug 3	A	ADF						No fish observed
Sep 12	A	ADF	400					400 salmon at mouth
Sep 24	A	ADF	605		3,785			5,000-7,000, good escapement
1962								
Sep 10	A	ADF						Few pink and chum in stream 100 chum at mouth
Sep 11	A	ADF	965		680			300 pink and chum at mouth Fish fairly bright. Some spawning

ADF STAT. No.
WC 10
ADF No. 245
Previous FWS No. 7
FRI No. 53

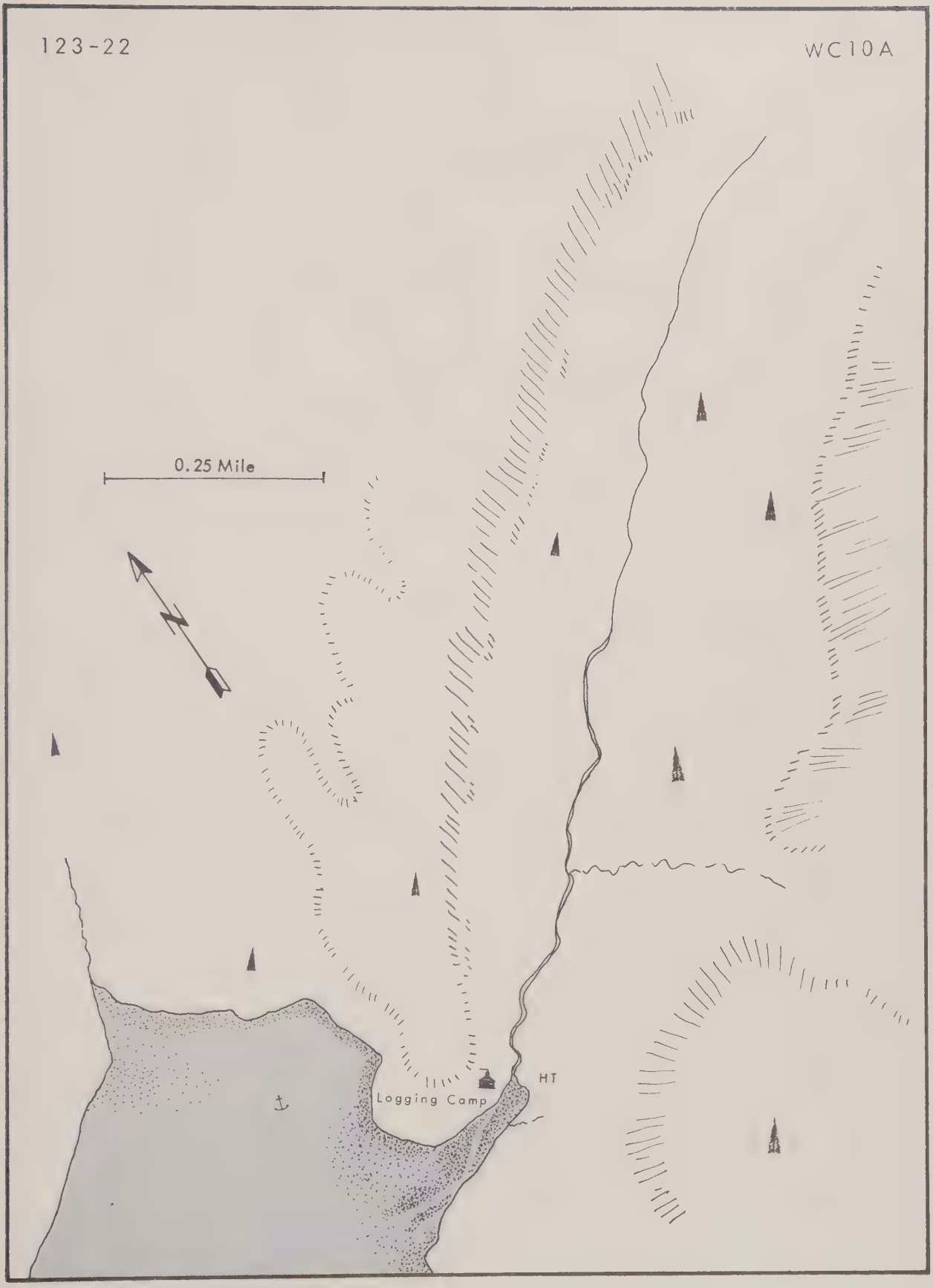
123-22

U. S. Bureau of Fisheries Weir Counts

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
July 21				15				
22				4				
July 23-Aug 17								No fish counted
Aug 18	4	1						
19	11	3		1				
20	43	10		2				
21	61	19		2				
22	23	2						
Aug 23-Sep 10								No fish counted
Sep 11	2	20						
12	47	400		1				
13	1,654	1,706	25	12				
14	543	615	140	21				
15	404	353	15	4				
16	1,062	1,256	294	8				
17	56	129	7					
18	31	100						
19	547	243	69					
20	344	462	103					
21	205	112	10					
22	115	65						
23	60	48						
24	212	116	2					
25	2,033	1,349	298					
26	3,006	1,929	312					
27	1,839	1,103	164					
28	272	174	26					
29	210	75	15					
30	322	112	23					
Oct 1	1,506	558	58					
2	1,098	825	76					
3								
4								
5	66	80	4					
6	34	64	2					
7	40	82	3					
8	31	76						
9	18	54	1					
10	16	43						
11	14	36						
Total	15,929	12,200	1,647					Weir taken out Oct 12

123-22

WC10A



123-22
55°05' N. 132°28.4' W.

ADF STAT. No.
WC 10A
ADF No. 246
FWS No. 7A

WEST COAST, CORDOVA BAY, KEETE INLET, Head of N. Arm on E. shore.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep. -Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal range. Observed temperature: 44° F., 9/30/50.
VALLEY DESCRIPTION A steep gradient valley.
DRAINAGE 2.3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream enters the NE. corner of the head of Keete Inlet.
ANCHORAGE Refer to WC 10.
TRAILS AND SURVEY ROUTES This stream is best surveyed by wading up the streambed.
AERIAL SURVEY NOTES Aerial surveying of this stream is not possible.

INTERTIDAL ZONE

LENGTH 250 yards.
AVERAGE WIDTH/DEPTH 10'-20'/3"-6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Rocks covered with moss.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Schooling takes place off the mouth. Fish bound for WC 10 and WC 10A tend to intermingle in this area.
SPAWNING AREAS Most of this zone offers good spawning facilities. Above this the bottom composition is largely rubble and boulders.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.5 mile.
AVERAGE WIDTH/DEPTH 6'-8'/8"-10".
GRADIENT AND VELOCITIES Steep.
BOTTOM Gravel and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES None.
SCHOOLING AREAS A few small potholes are available.
SPAWNING AREAS Spawning is limited in this area. There are some gravel areas, but the bottom consists largely of boulders. Intertidal area used mostly.
GENERAL NOTES Stream suffers from past logging activity with many downfalls and debris.

123-22

ADF STAT. No.
WC 10A
ADF No. 246
FWS No. 7A

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1948								
Sep 15	G 0.3	ASI						Not much here yet
Sep 24	G 0.3	ASI						10,000 in stream, mostly pink
Oct 2	G 0.3	ASI						3,000 at mouth
Oct 13	G 0.3	ASI	25,000		15,000			
1949								
Aug 18	G 0.3	FRI						No fish in stream or off mouth
1950								
Sep 30	G 0.3	FRI	2,200	150	200	10		
1953								
Sep 9	G 0.5	FWS	10		50			Chum spawning
1957								
Sep 5	G 0.5	FWS						Few chum. Water discolored
1958								
Sep 7	A	FWS						1,000 schooled off mouth
1960								
Aug 22	A	ADF	0		0			None at mouth
Sep 6	A	ADF	0		0			1,000 pink and chum at mouth
Sep 21	G 1.0	ADF	100		150			500 pink and chum at mouth. No spawning
Oct 2	A	ADF	0		0			None at mouth
1961								
Aug 15	G 0.5	ADF						No showing in bay
Sep 24	G 0.5	ADF	120		200			
1962								
Sep 11	G 0.5	ADF	90		20			50 pink and chum at mouth

123-22

WC10B

123-22
55°03.3' N. 132°28.5' W.

ADF STAT. No.
WC 10B
ADF No. 247
FWS No. 7B

WEST COAST, CORDOVA BAY, KEETE INLET, E. shore at mouth of N. arm.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep. -Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Steep gradient valley.
DRAINAGE 3.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream enters Keete Arm from the N., on the eastern side of the entrance to the north arm.
ANCHORAGE See WC 10.
TRAILS AND SURVEY ROUTES It is best to travel up the streambed because of the steep streambanks.
AERIAL SURVEY NOTES Not surveyed by air.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 40'-50'/10"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Boulders and gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off the mouth in the vicinity of the small island.
SPAWNING AREAS This zone provides most of the spawning area. For pink and chum.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.4 mile. AVERAGE WIDTH/DEPTH 30'/5"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Bedrock, boulders, and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two 6' falls 0.4 mile upstream are impassable to pink and chum. Cohos can pass over the falls with some difficulty.
TRIBUTARIES
SCHOOLING AREAS A big hole below the falls.
SPAWNING AREAS Fair spawning facilities persist from the high tide mark to the falls. Above the falls spawning facilities are good.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1948								
Sep 24	G 0.3	ASI	10,000					5,000 in tidal area
Oct 2	G 0.1	ASI						Stream low. 11,000 in tidal area
Oct 13	G 0.3	ASI	20,000		10,000			Excessive
1949								
Aug 18	G 0.3	FRI						No fish in stream or off mouth
1953								
Sep 9	G 0.3	FWS						Few fish at mouth
1960								
Aug 22	A	ADF	0		0			2,000 pink at mouth
Sep 6	A	ADF	0		0			2,000 pink at mouth
Sep 21	G 0.7	ADF	100		200			3,000 chum and coho at mouth

ADF STAT. No. WC 10B
ADF No. 247
FWS No. 7B

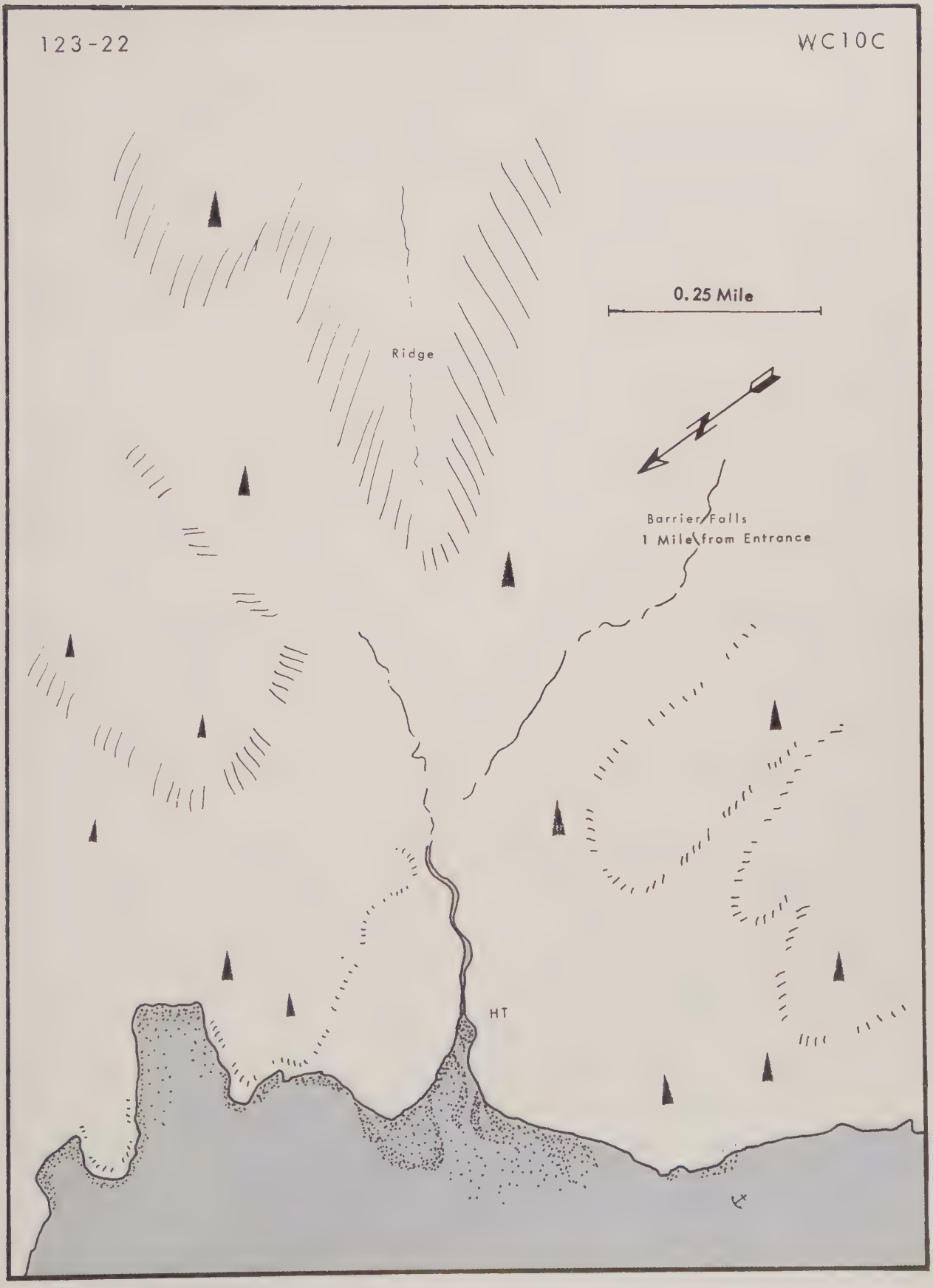
ESCAPEMENT RECORD - Continued

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1961								
Aug 15	G0.5	ADF						No showing in bay
Sep 12	A	ADF	200					First showing
Sep 24	G 0.7	ADF	115		195		75 coho	150 at mouth

123-22

WC10C



123-22
55°02.8' N. 132°29.2' W.

ADF STAT. No.
WC 10C
No Previous No.

WEST COAST, CORDOVA BAY, KEETE INLET, 3 miles S.E. of head.

MAJOR SPECIES Pink, chum.
OTHER SPECIES
ESCAPEMENT TIMING Late. Sep.-Oct. (estimated).
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 1.7 square miles (polar planimeter)
STREAM MOUTH IDENTIFICATION The stream enters the E. end of Keete Inlet, about 3 miles SE. of the entrance to the N. arm.
ANCHORAGE Refer to WC 10.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 40'-50'/10"-12".
GRADIENT AND VELOCITIES
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile to falls.
AVERAGE WIDTH/DEPTH 20'/10".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel and small rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS An 18' waterfall 1 mile upstream is impassable to salmon.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Chums spawn from the intertidal zone for a distance of one-third mile upstream.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1948								
Sep 15		ASI						About 7,000-8,000 at present
Sep 24		ASI						12,000 in stream. 4,000 off mouth
Oct 2		ASI						10,000 off mouth
Oct 13		ASI	30,000		10,000			Excessive
1953								
Sep 9	G 0.1	FWS	6					Stream high
1960								
Aug 22	A	ADF	0		0			None at mouth. Visibility good
Sep 6	A	ADF	0		0			1,000 pink and chum
Sep 21	G 1.5	ADF	1,000		1,000			2,500 pink and chum. No spawning
Oct 2	A	ADF	0		0			None at mouth. 3,000 dead, 2,000 in stream

N
0.25 Mile
Windfall Area
Rapids Area
Rapids Area

123-22 NUTKWA CREEK ADF STAT. No. WC 11
55° 28.8' N. 132° 29' W. Previous No. 55
ADF No.243

WEST COAST, CORDOVA BAY, NUTKWA INLET, NUTKWA LAGOON, Head.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho, red.
ESCAPEMENT TIMING Late. Aug. -Oct. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Excellent.
STREAM TEMPERATURES Warm range. Observed temperatures: 57° F., 9/4/49; 56.6° F., 8/16/50.
VALLEY DESCRIPTION Glacial. Both forks run through heavily wooded valleys fringed by snow-capped mountain.
DRAINAGE 27.8 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The mouth lies at the head of Nutkwa Lagoon. Very little tidal area at the mouth due to small tides.
ANCHORAGE The W. shore should be favored when entering.
TRAILS AND SURVEY ROUTES The stream is difficult to wade below the forks and is very brushy along the banks. Wadeable above the forks.
AERIAL SURVEY NOTES Excellent for aerial survey.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 60'/30".
GRADIENT AND VELOCITIES Slow.
BOTTOM Mostly sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Throughout large pools in intertidal area.
SPAWNING AREAS Very little spawning in this area.
GENERAL NOTES The intertidal zone is very short due to the small tides in the lagoon.

UPSTREAM

LENGTH ACCESSIBLE 3 miles to lake (N. fork). AVERAGE WIDTH/DEPTH 60'-80'/15"-30".
GRADIENT AND VELOCITIES Slow to moderate.
BOTTOM Gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 70' waterfall on the S. fork 1 mile upstream is impassable.
TRIBUTARIES Main stream forks to the right at the 2 mile point. S. fork comes in 0.5 mile above intertidal area.
SCHOOLING AREAS Numerous large pools in the lower part are utilized for schooling. The pools are not well defined, generally only deep areas.
GENERAL NOTES The remains of an old weir are found 0.2 mile upstream. This lagoon should be entered at slack tide in a small boat. Boats should favor the right shore. Survey should last through a tidal cycle. There has been considerable logging around the mouth of this stream. It is possible to survey stream on 11' or higher tides by entering the lagoon 1 hour before high tide and leaving 2 hours after or sooner. Inlet stream to lake affords 1.5 miles of excellent spawning to red and coho.

NUTKWA CREEK--Continued

ADF STAT. No. WC 11
Previous No. 55
ADF No. 243

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1929								
Sep 19		USBF	135,100		8,500			Nutkwa lagoon
1931								
Sep 28	Weir	USBF	35,565		9,763		2,653 coho, 83 red	Final total. Weir installed Aug 9. Weir broke Sep 5. Est. 40,000 from Sep 5 to Sep 1
1944								
Oct 11		FWS	165,000		6,500			Excellent
1945								
Sep 26		FWS	550,000		5,000			Excellent
1946								
Oct 18		FWS	800,000		20,000			Excellent
1948								
Aug 15	G 1.0	ASI			110		115 coho, 257 red	
Aug 22	G 1.5	ASI	150		250		100 coho, 250 red	
Aug 29	G 2.0	ASI	300		200		200 coho, 150 red	
Sep 12	G 1.5	ASI	>25,000				>5,000 coho	Few chum
Sep 29	G 2.5	ASI	>195,000		11,000			Fair
Oct 8	G 2.0	ASI	150,000	50,000	10,000	10,000		
Oct 8		FWS	200,000		25,000			Good
1949								
Aug 16	G 1.3	FRI						None observed
Aug 27	G 1.3	FRI						None in stream. Jumps in inlet
Sep 4	G 1.5	FRI	600		4		5 coho, 3 red	
Sep 18	G 2.0	FRI	2,430		400		530 coho, 1 red	
Oct 5	G 0.1	FRI						High water. Little evidence of fish entering
1950								
Aug 16	G 0.3	FRI	0	0	0	0		
1953								
June 26	G 1.3	FWS						No adult fish seen
Aug 14	G 0.0	FWS						None observed in stream
Sep 19	G 1.3	FWS						None observed
1954								
Sep 8	A 3.0	FRI	200	0				Thousands at lagoon entrance
Sep 25	A 3.0	FRI	14,000					Most spawning in both forks
1955								
Sep 10	A 4.2	FRI	6,000					Spawning above lake
Sep 19	A 3.0	FRI	15,000		5,000			2,000 pink at mouth of creek
Sep 25	A 3.0	FRI	20,000					Some dead pink. All spawning
1956								
Sep 9	A 3.0	FRI	5,000					>20,000 at creek mouth
Sep 20	A 4.2	FRI	90,000					Few dead pink. Thousands at mouth
Sep 29	A 3.0	FRI	65,000					Many dead pink. Some at mouth
1957								
Sep 6	G 0.5	FWS	180		50			Many jumps in bay and lagoon
Sep 15	A 0.5	FRI	1,000	0		0		Some chum. Several thousand pink at mouth
1958								
Sep 7	A 0.5	FWS						None observed
1959								
Sep 18	A	ADF	700					None at mouth. Some dead
1960								
Aug 3	A	ADF	0		0			None at mouth. Visibility excellent
Aug 12	A	ADF	0		0			None at mouth. Water very low
Aug 22	A	ADF	150		0			1,500 pink and chum at mouth
Sep 6	A	ADF	300		0			1,000 pink and chum at mouth

ADF STAT. No.
WC 11

123-22 NUTKWA CREEK - Continued

Previous No. 55
ADF No. 243

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1961								
Aug 3	A	ADF	3,700					Water low
Aug 16	G 1.7	ADF	10,900				200 red, 50 coho	Water low, none spawning
Aug 30	A	ADF	7,500					Visibility fair
Sep 12	A	ADF	17,600		150			Few dead
Sep 23	G 1.9	ADF	11,475	2,400	86	85	23 red, 290 coho	
1962								
Aug 21	G 2.0	ADF	2,500				20 red	All fish bright
Aug 26	A	ADF	8,000					In lower 2 miles, Visibility excellent
Aug 30	A	ADF	8,200					150 at mouth. Visibility excellent
Sep 6	A	ADF	7,700					Few at mouth
Sep 11	G 2.0	ADF	7,690		24		17 red, 200 coho	Heavy spawning

123-22

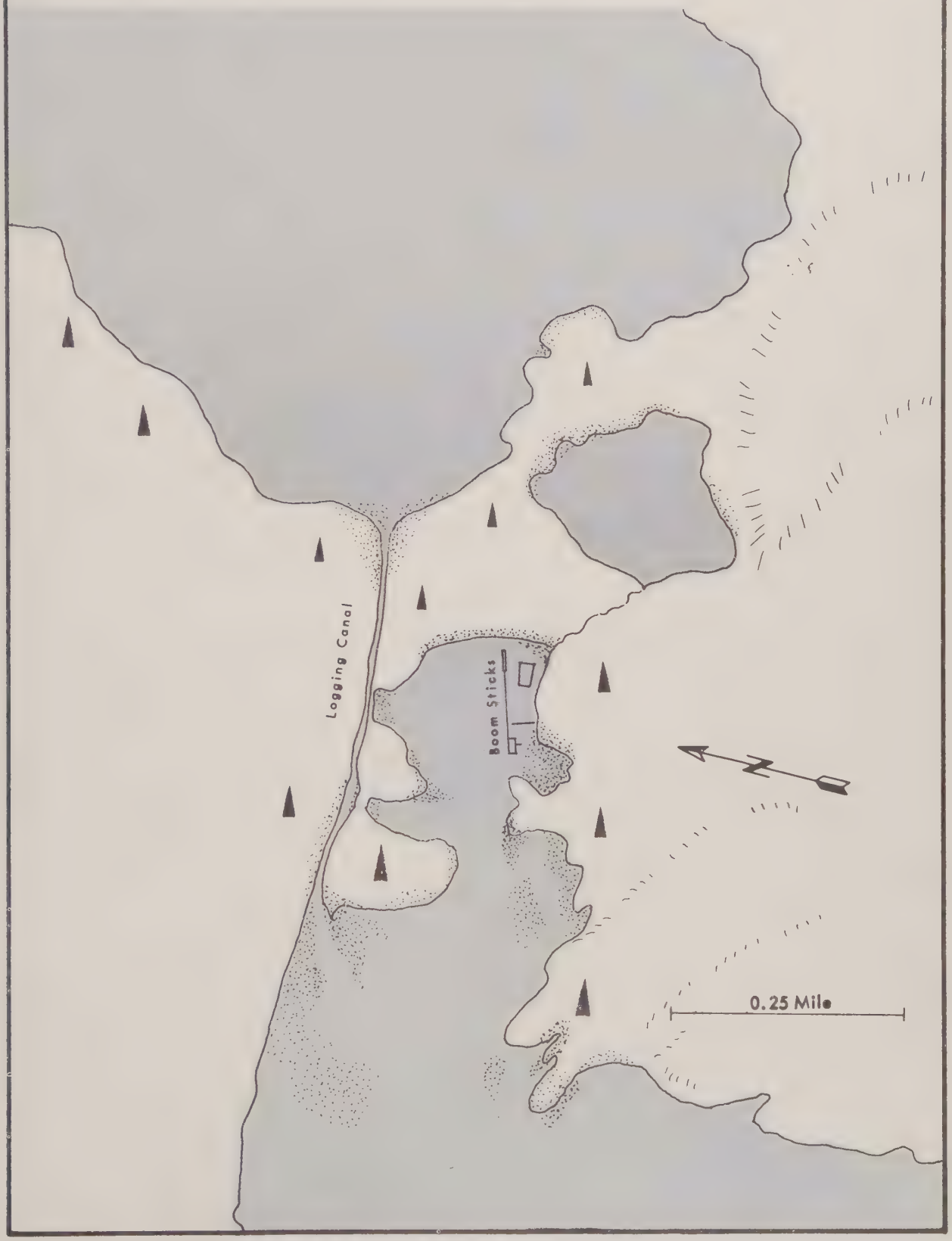
NUTKWA CREEK

ADF STAT. No. WC 11
Previous No. 55
ADF No. 243

U. S. Bureau of Fisheries Weir Counts

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
Aug 9		14						
10								
11								
12		2						
13								
14		20		2				
15		178		9				
16	436	4,107		2				
17	40	101	2					
18	3	33		4				
19	14	171	3	5				
20	14	113	4					
21	31	170						
22	180	592	1	2				
23	1,613	1,626						
24	5,348	18						
25	60	212	3					
26	59	274	4	14				
27	5,097	291	626	29				
28	3,576	112	143	6				
29	7,008	338	751	2				
30	770	73	100	3				
31	176	76	6	4				
Sep 1	5,570	363	415					
2	276	48	6					
3	211	11	2					
4	170	9	1	1				
5								Weir washed out Sep 5 due to high water. Estimate 40,000 salmon ascended stream. 30,000 pink, 9,000 chum, 1,000 coho
15	87	12	4					
16	419	56	54					
17	225	23	7					
18	326	90	5					
19	820	76	4					
20	1,275	214	290					
21	44	28	2					
22	32	15						
23	112	29	13					
24	136	21	16					
25	52	13	2					
26	1,036	199	18					
27	349	35	171					
28								Weir dismantled
Total	35,565	9,763	2,653					

123-21 HETTA LAKE CREEK WC 12



123-21
53°10.4' N. 132°34.5' W.

HETTA LAKE CREEK

ADF STAT. No.
WC 12
Previous No. 44
ADF No. 242
FWS No. 9

WEST COAST, CORDOVA BAY, HETTA INLET, HETTA COVE, Head.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Late. Aug.-Sep.-Oct. (est.)
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION A short stream-cut valley. Steep slopes to the N. and rolling hills to the S. The lake is surrounded by snow-capped mountains.
DRAINAGE 9.7 square miles (polar planimeter). The stream drains Hetta lake, 2 miles long and 0.5 mile wide. Numerous small streams enter the lake. Snowfields are found along both sides of the valley.
STREAM MOUTH IDENTIFICATION Enters Hetta Harbor on the N. side. Very little tidal area.
ANCHORAGE Hetta Harbor affords anchorage for small craft.
TRAILS AND SURVEY ROUTES A trail may be followed from the lagoon near the mouth to Hetta Lake.
AERIAL SURVEY NOTES A fair stream for aerial survey.

INTERTIDAL ZONE

LENGTH 200 yards.
AVERAGE WIDTH/DEPTH 40'/12".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Small gravel and some bedrock, all algae covered.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS At the mouth.
SPAWNING AREAS None.
GENERAL NOTES A large landslide took place near the mouth and part of the slide went into the stream. Does not present a block.

UPSTREAM

LENGTH ACCESSIBLE 0.2 mile to lake.
AVERAGE WIDTH/DEPTH 20'-40'/15".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Rock and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS No falls.
TRIBUTARIES Many small streams empty into the lake and are used by all species.
SCHOOLING AREAS School in pools throughout the distance surveyed.
SPAWNING AREAS A fair spawning stream, pinks spawn in all areas from the high tide mark to the lake.
GENERAL NOTES Some spawning takes place along the shores of Hetta Lake, but most of the spawning is near the mouths of creeks.

HETTA LAKE CREEK--Continued

ESCAPEMENT RECORD

ADF STAT. No. WC 12
Previous No. 44
ADF No. 242
FWS No. 9

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 24	G 0.3	FWS	15,000		1,500			
1943								
Oct 6	G 0.3	FWS	100,000		5,000		5,000 coho, 10,000 red	
1944								
Oct 9	G 0.3	FWS	15,000		10,000			Good
Oct 11	G 0.3	FWS	60,000		3,600			Excellent
1945								
Sep 27	G 0.3	FWS	150,000		1,000			Excellent
1947								
Oct 8	G 0.3	FWS	10,000		2,000		1,000, 5,000 red	Good
1948								
Sep 25	G 0.3	ASI	10,000		4,000			Very good escapement
1949								
Oct 5	G 0.3	FWS	3,150		1,500		100 coho	
1952								
Sep 16	G 0.3	FWS	9,400	1	100		5 coho, 2 red	
1953								
Aug 5	G	FWS					1,800 red	Highest seasonal est. of red
Aug 20	A 0.3	FWS						Many jumps at mouth
Sep 9	G 0.3	FWS	1,500		5		100 red	10,000-20,000 pink at mouth
1957								
Sep 6	G 0.5	FWS	1		0			Many jumps. Fish bright
Sep 7	G 0.5	FWS	1		0			Several chum, pink, red at mouth
1959								
Aug 12	A	FWS	500					
Aug 17	A	ADF	10,300		500		19,600 red, 500 coho	
Aug 24	A	ADF	1,000		1,000			None at mouth
Sep 20	A	ADF	2,500					None at mouth
1960								
Aug 12	A	ADF	0		0			None at mouth
Aug 20	A	ADF	0		0			250 pink and chum at mouth
Aug 30	A	ADF	0		0			200 pink and chum at mouth
Sep 12	A	ADF	0		0			Few chum at mouth. No new fish
Sep 20	G 1.5	ADF	65		120			2,000 pink & chum at mouth. All spawning
Oct 2	A	ADF	0		0			None at mouth. Visibility good
1961								
Sep 12	A	ADF	2,900					1,000 red off inlet stream. 250 pink at mouth
Sep 21		ADF	4,525		105			All bright fish.
1962								
Sep 6	A	ADF					16,000 red	Few pink
Sep 11	A	ADF						Few red, coho, and chum

123-21 COPPER CREEK ADF STAT. No. WC 13
55°13.1' N. 132°35.9' W. Previous No. 42
ADF No. 241

WEST COAST, CORDOVA BAY, HETTA INLET, COPPER HARBOR, Head.

MAJOR SPECIES Pink, chum. OTHER SPECIES
ESCAPEMENT TIMING Late. Sep.-Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair. Stream has good spawning area in first stretch.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION After first 6' falls, course climbs rapidly through narrow gorge. Glacial-cut.
DRAINAGE 6.6 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE An anchorage is found at the head of Copper Harbor in 20 fathoms.
TRAILS AND SURVEY ROUTES The first part of the stream is hard walking with downfalls on both banks and moss-covered rocks in the streambed.
AERIAL SURVEY NOTES Not surveyed by air.

INTERTIDAL ZONE

LENGTH >0.1 mile. AVERAGE WIDTH/DEPTH 25'/8".
GRADIENT AND VELOCITIES
BOTTOM Gravel and rock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS The upper portion is used.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.4 mile to falls. AVERAGE WIDTH/DEPTH 20'/15".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Gravel and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS An impassable waterfall is found 0.4 mile upstream. A 6' waterfall just below this falls is passable.
TRIBUTARIES One tributary has 100' of 50% spawning area and then goes into the side of the mountain.
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Stream is fed by two high lakes.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1943								
Oct 6		FWS	10,000		5,000			Excellent
1944								
Oct 12		FWS	25,000		3,000			Excellent
1945								
Sep 27		FWS	85,000		15,000			Excellent
1947								
Oct 9		FWS			2,000			Poor. Few pink

123-21
PORTAGE CREEK
WC 14
Portage Bay Road
0.25 Mile

123-21
55°16.8' N. 132°32.7' W.

PORTAGE CREEK

ADF STAT. No.
WC 14
Previous No. 39
ADF No. 240

WEST COAST, CORDOVA BAY, HETTA INLET, PORTAGE BAY, Head.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho, red.
ESCAPEMENT TIMING Late. Aug.-Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. Observed temperatures: 55°F. (S. fork), 45.5°F. (E. fork), 8/17/50; 55°F. (S. fork), 45°F. (E. fork), 8/28/50; 49°F. (S. fork), 44°F. (E. fork), 9/7/50; 52.5°F. (S. fork), 45.5°F. (E. fork), 9/17/50; 42°F., 10/1/50; 46°F., 8/21/51; 47°F., 8/30/51; 50°F., 9/20/51; 47°F. (E. fork), 52°F. (S. fork), 9/24/52; 51.5°F. (S. fork), 46.5°F. (E. fork), 9/14/53; 49°F. (S. fork), 45°F. (E. fork), 9/24/53.
VALLEY DESCRIPTION Glacial and stream-cut in some areas. Mountains lie both N. and S. of the stream.
DRAINAGE 7.8 square miles (polar planimeter). Precipitation fed. Numerous small streams run down from the snowfields on each side of the stream.
STREAM MOUTH IDENTIFICATION The stream flows across a tide flat 0.5 mile in length and empties into the head of Portage Bay.
ANCHORAGE The head of Portage Bay affords good anchorage. Pass Gould Island on the N. side.
AERIAL SURVEY NOTES The N. fork is good for aerial survey, but the S. fork is short - only a quick glance can be taken.

INTERTIDAL ZONE

LENGTH 0.6 mile.
AVERAGE WIDTH/DEPTH 80'-90'/-
GRADIENT AND VELOCITIES Moderate.
BOTTOM Coarse gravel and larger rock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A pool at the high tide mark.
SPAWNING AREAS Most of the spawning in this area takes place in the upper part. Good spawning gravel is found here.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles (N. fork).
AVERAGE WIDTH/DEPTH 25'-40'/4"-12".
GRADIENT AND VELOCITIES Steep to moderate.
BOTTOM Coarse gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 15' falls is reported to be 0.5 mile up the S. fork and impassable to salmon.
TRIBUTARIES None.
SCHOOLING AREAS The S. fork has numerous deep pools in its lower reaches which are available for schooling.
SPAWNING AREAS Most of the spawning is in the lower 0.4 mile of each fork. Some pinks and chums spawn as far up as 1.5 miles.
GENERAL NOTES Numerous windfalls. Old beaver dams in the vicinity of the forks. S. fork originates from a small high lake.

PORTAGE CREEK - Continued

ESCAPEMENT RECORD

ADF STAT. No. WC 14
Previous No. 39
ADF No. 240

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 24	G	FWS	50,000		15,000			
1943								
Oct 6	G	FWS	100,000		10,000			Excellent
1944								
Oct 12	G	FWS	175,000		8,000			Excellent
1945								
Sep 27	G	FWS	250,000		50,000			Excellent
1947								
Oct 8	G 1.0	FWS	12,000		48,000			40,000 chum off mouth
1948								
Aug 17	G 1.0	ASI			5			
Aug 24	G 1.0	ASI			25			Some chum at mouth
Aug 31	G 1.0	ASI	760		550			
Sep 7	G 1.0	ASI	9,100		1,300			25,000 in bay
Sep 14	G 1.0	ASI	13,000		2,000			Many at mouth
Sep 23	G 1.0	ASI	30,000		10,000			Good. 15,000 off mouth
Oct 1	G 1.0	ASI	45,000	17,500	13,000	8,000		Excellent
Oct 5	G 1.0	FWS	50,000		30,000			Excellent
Oct 10	G 1.0	ASI	35,000	50,000	25,000	35,000		Excellent
1949								
Aug 15	G 1.0	FRI	25		1			2 jumps seen
Aug 29	G 1.0	FWS	200		15			
Sep 19	G 0.5	FRI	490	16	440	135		
Oct 3	G 0.5	FRI	1,640	250	1,180	474	200 coho	
1950								
Aug 17	G 0.5	FRI	0	0	0	0		
Aug 28	G 0.5	FRI	55	2	71	0		700-800 chum, pink off mouth
Sep 7	G 0.5	FRI	650		210	3		2,500 off mouth, mostly chum
Sep 17	G 0.5	FRI	550	12	2,346	9		20,000 off mouth, 10-15% pink
Oct 1	G 0.5	FRI	3,875	500	850	400		
1951								
Aug 21	G 1.0	FRI	25	0	10	0	40 red	
Aug 30	G 0.5	FRI	330	0	45	0		
Sep 20	G 0.5	FRI	3,300	0	1,612	50		
Oct 2	G 0.5	FRI	1,200	150	1,800	2,100		5,000-10,000 chum, 200 pink off mouth
1952								
Sep 24	G 0.5	FRI	3,480	>150	1,100	>100		Several hundred chum off mouth
Oct 3	A	FRI	<1,000					Chum present. Peak past
1953								
Sep 9	G 0.9	FWS	510		300			Several thousand pink near mouth
Sep 14	G 0.5	FRI	12,000	0	220	0	Some coho	5,000-10,000 chum, 2,000 pink in bay
Sep 24	G 0.3	FRI	2,900	400	450		1 red	300 chum and coho off mouth
1954								
Sep 8	A 0.5	FRI	800	0				3,000 at mouth, 5,000-6,000 in bay
Sep 16	G 0.5	FRI	850		250		1 red, 6 coho	Some dead chum, pink. 10,000 off mouth
Sep 25	A 0.5	FRI	9,000	>200	500			Some dead chum. 3,000 chum above S. fork marker
1955								
Sep 10	A 0.5	FRI	5,000					10,000 at mouth. Many in bay
Sep 19	A 0.5	FRI	9,000		9,000			Most in right fork
Sep 23	A 0.5	FRI	11,000					Chum present. Some dead chum, pink. >5,000 in bay, 13,000 at mouth

PORTAGE CREEK - Continued

ESCAPEMENT RECORD

ADF STAT. No. WC 14
Previous No. 39
ADF No. 240

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1955								
Sep 28	A 0.5	FRI	17,000					Some chum. Some dead chum, pink 15,000 chum, pink at mouth
1956								
Sep 9	A 0.5	FRI	>200					>10,000 at mouth
Sep 20	A 0.5	FRI	8,000		5,000			10,000 at mouth. >10,000 chum in bay
Sep 29	A 0.5	FRI	16,000		>4,000	>200		Some dead pink. 8,000 chum in bay and at mouth
1957								
Sep 7	G 0.5	FWS	350		70			300 pink at mouth
Sep 15	A	FRI	200	0	300	0		1,000 chum, 1,000 pink at mouth >10,000 chum, some pink off mouth
Sep 21	G 0.5	FWS	900		7,730			20,000 chum, 500 pink at, off mouth
Sep 27	A	FRI			10,000	2,000		Some pink. 5,000 chum, pink at mouth
1959								
Sep 18	A	ADF	800					
1960								
Aug 3	A	ADF	0		0			None at mouth
Aug 12	A	ADF	0		0			250 chum at mouth. No fish in stream
Aug 22	A	ADF	0		0			500 chum at mouth. Visibility good
Aug 30	A	ADF	0		0			1,500 chum and pink at mouth
Sep 12	A	ADF	1,000		500			2,000 chum and pink at mouth
Sep 20	G 1.0	ADF	650		1,000		1 red, 15 coho	5,000 chum and pink at mouth
Oct 2	A	ADF	300		1,000			None at mouth. 3,000 dead fish
1961								
Aug 3	A	ADF	150					Initial showing
Aug 14	G 0.7	ADF	70				20 red	Fish in right fork
Aug 18	A	ADF	100					7,500 pink at mouth, school off mouth
Aug 30	A	ADF	1,050					Large school off mouth
Sep 12	A	ADF	9,000		300			2,300 pink and chum at mouth
Sep 22	G 1.5	ADF	5,610	1,500	1,770	300		Mostly pink in intertidal
1962								
Aug 8	A	ADF	200					Few jumps
Aug 24	G 0.5	ADF	800					700 at mouth
Aug 26	A	ADF	1,200					Visibility excellent
Sep 2	A	ADF	900					3,500 pink and chum at mouth
Sep 10	G 0.7	ADF	6,700		500			2,000 pink and chum at mouth, half bright fish

123-21 BEAVER CREEK ADF STAT. No. WC 15
55°17.3' N. 132°37.3' W. Previous No. 40
ADF No. 239

WEST COAST, CORDOVA BAY, HETTA INLET, N. of N.W. corner of Gould Island.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Sep.-Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 7.8 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The mouth enters the inlet on the E. side of the point N.W. of Gould Island. A small island lies E. of the creek mouth.
ANCHORAGE Anchorage may be found offshore from the old settlement of Sultzer which is W. of the creek mouth.
TRAILS AND SURVEY ROUTES The left-hand bank may be walked, but no trails follow the stream.
AERIAL SURVEY NOTES No aerial survey

INTERTIDAL ZONE

LENGTH 0.05 mile. AVERAGE WIDTH/DEPTH 30'-50'/12"-15".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION Bedrock falls.
SCHOOLING AREAS Just below the falls.
SPAWNING AREAS Most of the available spawning gravel is in this area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.5 mile. AVERAGE WIDTH/DEPTH 20'/8"-12".
GRADIENT AND VELOCITIES
BOTTOM Gravel in the lower 0.25 mile, largely bedrock above.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A small falls at the high tide mark is passable, but a larger falls 0.5 mile upstream is a total block to salmon.
TRIBUTARIES None reported.
SCHOOLING AREAS A few holes in the lower part offer facilities for schooling.
SPAWNING AREAS The lower 0.25 mile has good gravel, but the area above is largely bedrock and offers little spawning area.
GENERAL NOTES

ESCAPEMENT RECORD

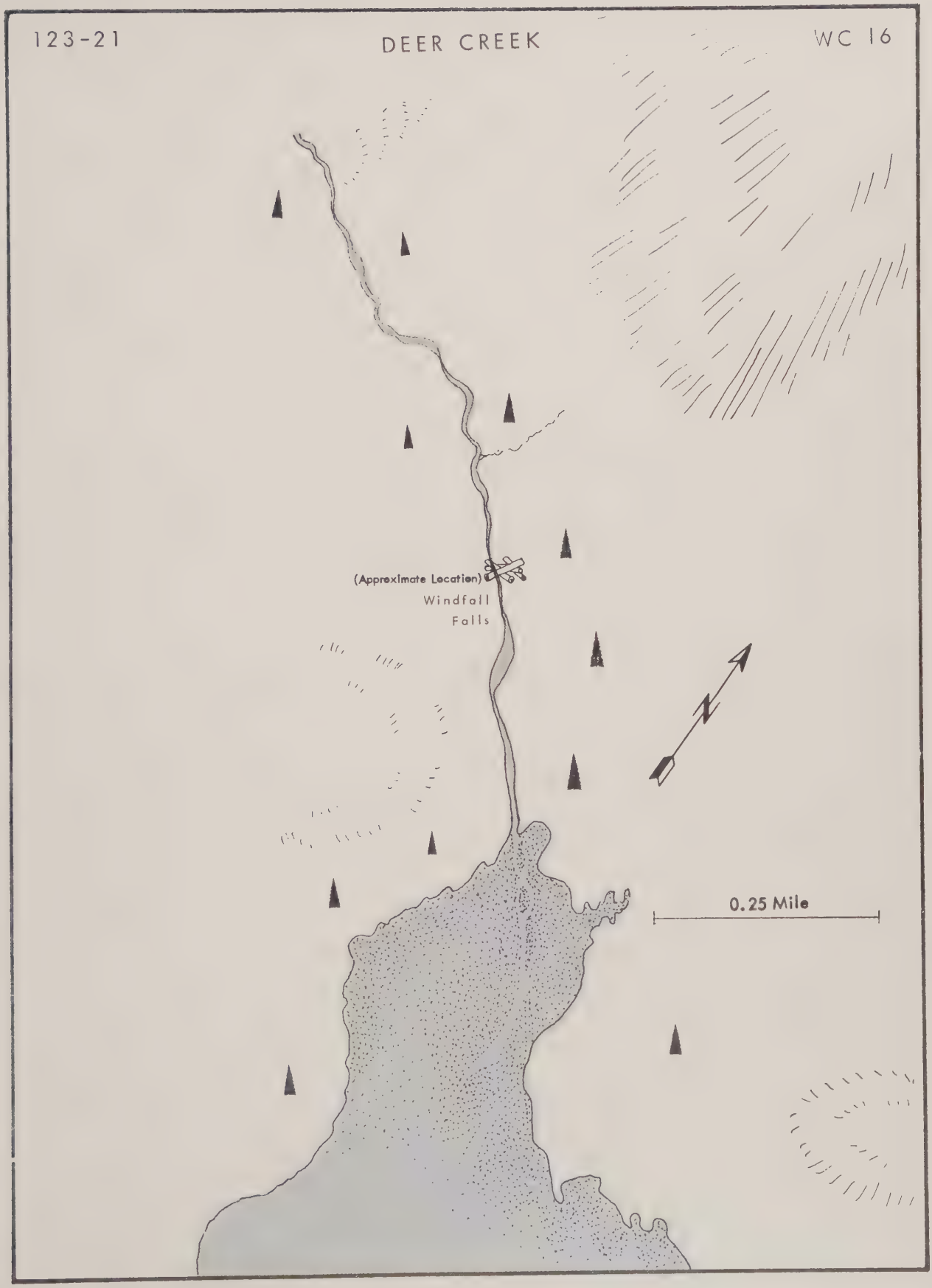
[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1943								
Oct 6		FWS	4,000		500			Fair
1944								
Oct 12		FWS	1,000		200			Poor
1945								
Sep 27		FWS	25,000		100			Excellent
1947								
Oct 9		FWS	2,000		500			Poor
1953								
Sep 9	G 0.4	FWS	10				5 coho	Stream high
1961								
Aug 18	A	ADF						4 small schools down N.W. shore
Sep 22	G 0.2	ADF	3		155			First showing, all fresh. Few at mouth

123-21

DEER CREEK

WC 16



123-21 DEER CREEK ADF STAT. No. WC 16
55°14.6' N. 132°41.5' W. Previous No. 41
ADF No. 237

WEST COAST CORDOVA BAY, HETTA INLET, DEER BAY, Head.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Aug. -Oct. (estimated) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Glacial-cut. Heavily wooded on the N. side of the valley where the stream runs along. Patches of open ground S. of the stream.
DRAINAGE 3.9 square miles (polar planimeter). Precipitation fed.
STREAM MOUTH IDENTIFICATION The stream enters the head of Deer Bay, flowing across a short tideflat before emptying into the bay.
ANCHORAGE Deer Bay is about 0.8 mile long and 600 yards wide at its widest point, and affords good anchorage in 5 to 16 fathoms. Midchannel course is clear.
TRAILS AND SURVEY ROUTES Wadeable and easy to survey. Follow the left bank upstream.
AERIAL SURVEY NOTES Fair for aerial survey.

INTERTIDAL ZONE

LENGTH 0.3 mile. AVERAGE WIDTH/DEPTH 50'-60'/12"-15".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel and small stones.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A small pool at the head of tidewater and off the mouth.
SPAWNING AREAS Pinks spawn throughout this zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles. AVERAGE WIDTH/DEPTH 30'-40'/12"-20".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Gravel, sand, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES A small tributary enters from the N W. 0.5 mile above the high tide mark.
SCHOOLING AREAS A few small pools.
SPAWNING AREAS Spawning takes place throughout the distance surveyed but is limited by bedrock.
GENERAL NOTES

DEER CREEK--Continued

ESCAPEMENT RECORD

ADF STAT. No.
WC 16
Previous No. 41
ADF No. 237

[Counts made by ground surveys are designated by G Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 24		FWS	11,000		3,000			
1943								
Oct 6		FWS	60,000		8,000			Excellent
1944								
Oct 12		FWS	180,000		16,000			Excellent
1945								
Sep 27		FWS	75,000		21,000			Excellent
1947								
Oct 9		FWS	7,500		22,500			Good
1948								
Aug 16	G 1.5	ASI	0		0			
Aug 23	G 0.5	ASI	50					High water
Aug 30	G 1.0	ASI	3,000		20			No fish beyond 1/4 mile
Sep 6	G 1.0	ASI	3,000		1,500			7,500 off mouth
Sep 13	G 1.0	ASI	11,000		2,000			10,000 in bay
Sep 22	G 0.5	ASI	22,000		5,500			Good. 5,000 in bay
Sep 30	G 1.5	ASI	42,000	6,000	13,000	2,500		Excellent
Oct 6		FWS	20,000		20,000			Good
Oct 11	G 1.0	ASI	35,000	45,000	9,000	12,000		Excellent
1949								
Aug 15	G 0.8	FRI						None seen
Oct 5	G 0.8	FWS	2,650		1,450		50 coho	
1954								
Sep 8	A 1.0	FRI						Few pink. Water low
Sep 25	A 0.5	FRI	>3,000					Most fish in lower stream
1961								
Aug 18	A	ADF						1,000 pink and chum at mouth, 1st showing
Aug 30	A	ADF	500					200 pink at mouth
Sep 12	A	ADF	225					900 pink and chum at mouth
Sep 22	G 0 7	ADF	480		527			All spawning
1962								
Sep 3	A	ADF	900					2,000 pink and chum at mouth
Sep 10	G	ADF	1,360		60			1,000 pink and chum at mouth

123-21 EEK LAKE CREEK WC 17

123-21 EEK LAKE CREEK ADF STAT. No. WC 17
55°09.5' N. 132°40.3' W. Previous No. 43
ADF No. 236
WEST COAST, CORDOVA BAY, EEK INLET, Head. FWS No. 10

MAJOR SPECIES Pink, red. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Middle. July-Aug. (red). Late. Sept. (coho).
SPAWNING FACILITIES Good in lake tributaries only.
STREAM TEMPERATURES
VALLEY DESCRIPTION Flows through a heavily wooded flat.
DRAINAGE 6.1 square miles (polar planimeter). Drains a lake and several beaver ponds.
STREAM MOUTH IDENTIFICATION A falls, where the stream enters salt water, may be seen from the head of the inlet.
ANCHORAGE Good anchorage inside Eek Inlet off cabins on S. shore.
TRAILS AND SURVEY ROUTES A trail goes up the left bank.
AERIAL SURVEY NOTES The overhanging trees and brush, and the muskeg-colored water make aerial surveys unsatisfactory.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM Large boulders and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION Falls at head of high tide.
SCHOOLING AREAS Off mouth and below falls.
SPAWNING AREAS None in the intertidal area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.3 mile to lake. AVERAGE WIDTH/DEPTH 30'/18".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None.
SCHOOLING AREAS Small pools throughout stream.
SPAWNING AREAS The stream is very short and the fish go through it and into the lake and its tributaries. No spawning in the stream proper.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1949								
July 30	G 0.5	FWS					50 red	
Aug 10	G 0.5	FWS			2			
Aug 17	G 0.5	FWS	2,500					
1953								
July 3	G 0.0	FWS					150 red	
Aug 14	G 1.5	FWS					200 red	
Sep 10	G 0.5	FWS	50					Water high, dark
1954								
Sep 8	A	FRI	0					3,000-4,000 red at mouth of stream into second lake
1959								
Aug 17	A	ADF	900		400		23,500 red to date	

ADF STAT. No.
WC 17
Previous No. 43
ADF No. 236
FWS No. 10

123-21

EEK LAKE CREEK - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1961								
Aug 13	Lake	ADF						Stream guard reports good escapement of red
Sep 12	A	ADF					800 red	Off inlet stream of lake
1962								
		ADF					3,000-4,000 red	Streamguard estimate

123-21
55°12.4' N. 132°49.5' W.

HYDABURG CREEK

ADF STAT. No. WC 18
ADF No. 234
FWS No. 11

WEST COAST, SUKKWAN STRAIT, SUKKWAN NARROWS, N. of Hydaburg.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Sep. -Oct. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good above 0.5 mile. Estimated spawning area is 12,000 square yards.
STREAM TEMPERATURES Normal range. Observed temperatures: 51°F., 8/30/52; 49°F., 9/12/52; 50°F., 9/23/52; 51°F., 9/5/53; 50°F., 9/14/53; 49°F., 9/24/53.
VALLEY DESCRIPTION
DRAINAGE 10 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters through a bedrock area. The intertidal zone is a small mudflat.
ANCHORAGE Boats may moor at the floats in Hydaburg village.
TRAILS AND SURVEY ROUTES Easily waded for its entire length. A good trail follows the right bank.
AERIAL SURVEY NOTES Good for aerial survey.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 40'/16"-18".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mud and bedrock.
LOW TIDE LOCATION
HIGH TIDE LOCATION Falls at high tide mark.
SCHOOLING AREAS Off stream mouth on the flats.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2 miles to dam. AVERAGE WIDTH/DEPTH 8'-15'/6"-10".
GRADIENT AND VELOCITIES Moderate to slow.
BOTTOM Gravel, sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 13' falls and 11' dam are located upstream 5,650'. Both are impassable.
TRIBUTARIES
SCHOOLING AREAS Pools throughout this section offer facilities for schooling salmon.
SPAWNING AREAS Spawning in all riffle areas between the pools.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1952								
Aug 30	G0.3	FRI	263	0	2	0		All fresh
Sep 12	G0.3	FRI	620	0	10	0	50 coho	700 pink at mouth
Sep 23	G0.3	FRI	1,350	20	250	2	90 coho	None off mouth
Oct 3	A	FRI	<400					Chum present. Peak past
1953								
Sep 5	G0.3	FRI	362	0	20	0	6 coho	Very few off mouth
Sep 10	G0.3	FRI	475	0	2	0		Poor visibility
Sep 24	G0.3	FRI	600					High water. None at mouth
1954								
Sep 8	A0.3	FRI	>200	0				Few off mouth
1961								
Aug 18	A	ADF						700 fish at mouth
Sep 12	A	ADF						Few pink and chum in stream, 500 chum at mouth

ADF STAT. No.
WC 18
ADF No. 234
FWS No. 11

123-21 HYDABURG CREEK - Continued

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1962								
Aug 26	A	ADF	1,400					Fish showing to falls
Aug 30	A	ADF						3,000 fish at mouth
Sep 6	A	ADF	1,700					20,000 pink and chum at mouth
Sep 8	G 3.0	ADF	1,625					6,000-7,000 pink below bridge, few coho and chum

123-21
55°12.2' N. 132°49.3 W.

ADF STAT. No.
WC 18A
ADF No. 235
FWS No. 11A

WEST COAST, SUKKWAN NARROWS, 1 mile S. of the town of Hydaburg.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho.
ESCAPEMENT TIMING
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES
VALLEY DESCRIPTION The stream runs through a flat valley.
DRAINAGE 8.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream enters Sukkwan Narrows 1 mile S. of Hydaburg.
ANCHORAGE Good anchorage can be found in Sukkwan Straits as far as Hydaburg.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Good for aerial surveys.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 70'-90'/24"-30".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Fine gravel and bedrock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2 miles.
AVERAGE WIDTH/DEPTH 50'/18"-24".
GRADIENT AND VELOCITIES Steep to moderate.
BOTTOM Pea size gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES
SCHOOLING AREAS In deep holes.
SPAWNING AREAS Between pools.
GENERAL NOTES Stream forks at 1.75 mile point.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1949								
Aug 14	G 1.5	FRI	400					
1960								
Aug 12	A	ADF	0		0			Few pink and chum. No fish in stream
Aug 22	A	ADF	0		0			Few pink and chum. Visibility poor
Aug 30	A	ADF	200		0			1,500 pink and chum at mouth. Visibility poor
Sep 12	A	ADF	3,000		1,000			Few chum at mouth. Some spawning. Few dead
Sep 24	G 0.5	ADF	500		100			None at mouth. 1,500 dead pink and chum
Oct 2	A	ADF	0		0			None at mouth

ADF STAT. No.
WC 18A
ADF No. 235
FWS No. 11A

123-21

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1961								
Aug 18	A	ADF	400					800 pink and chum at mouth
Sep 12	A	ADF	700		150			Visibility excellent. 200 pink and chum at mouth
1962								
Aug 18	A	ADF	400					In one hole. Visibility excellent
Aug 26	A	ADF	4,000					Fish in lower stream
Aug 30	A	ADF	7,500					1,700 at mouth. Fish in lower stream and intertidal
Sep 6	A	ADF	12,000					Most fish in lower stream and intertidal

123-12 WATERFALL CREEK ADF STAT. No. WC 19
55°17.8' N. 133°14.4' W. Previous No. 47
ADF No. 188

WEST COAST, ULLOA CHANNEL, 0.25 mile N.E. of Waterfall Cannery.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Boats of all sizes may tie up to the docks at the Waterfall Cannery.
TRAILS AND SURVEY ROUTES A trail goes from the cannery to the stream.
AERIAL SURVEY NOTES Can be surveyed by air during low flow.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Falls 0.3 mile upstream are about 30' high and block the ascent of salmon.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1945								
Oct 21		FWS	30,000		5,000			Excellent
1947								
Oct 6		FWS	20,000		5,000			Excellent
1948								
Oct 6		FWS	20,000		15,000			Excellent
1950								
Sep 7	G 0.3.	FRI	420	0	40	0		Some jumps off mouth
1953								
Sep 10	G 0.3	FWS	200		5			Visibility poor
1961								
Aug 18	A	ADF						4,300 pink and chum at mouth
Sep 12	A	ADF	2,300	150				2,400 pink and chum at mouth

123-12
54°44.9' N. 132°45.3' W.

ADF STAT. No.
WC 20
Previous No. 89
ADF No. 226

WEST COAST, KAIGANI STRAIT, DATZKOO HARBOR, 1.2 miles from head of N. shore.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 1.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE The entrance channel to this harbor is clear and lies N. of two small wooded islands. Anchorage is in 15 to 20 fathoms. A mudflat fills the head of the harbor.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES A poor stream for aerial survey.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective rating
1946								
Oct 20		FWS	20,000		2,000			Excellent
1947								
Oct 12		FWS	7,500		7,500			Excellent
1948								
Oct 19		FWS	15,000		3,000			Excellent
1949								
Oct 6		FWS	1,500		850			

123-12
54°54.8' N. 132°55.7' W.

GRACE CREEK

ADF STAT. No.
WC 21
ADF No. 221

WEST COAST, KAIGANI STRAIT, GRACE HARBOR, Head.

MAJOR SPECIES Pink, chum.
ESCAPEMENT TIMING Late. Sep.
SPAWNING FACILITIES
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 4.7 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1953								
Sep 18	G0.1	FWS	530		270			4,500 pink at mouth. Chum mature
1960								
Aug 17	A 2.0	ADF	0		0			None at mouth. No fish showing in bay
Aug 22	A	ADF	0		0			None at mouth
Aug 30	A	ADF	0		0			Fish in bay. 250 pink and chum at mouth
Sep 27	A	ADF	100		0			100 at mouth. Visibility poor

123-12 VESTA CREEK ADF STAT. No. WC 22
54°55.7' N. 132°55.7' W. ADF No.220.

WEST COAST, KAIGANI STRAIT, VESTA BAY, Head.

MAJOR SPECIES Pink, chum. OTHER SPECIES
ESCAPEMENT TIMING Late. Sep. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 1.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Poor.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1953								
Sep 18	G 0.1	FWS	48		20			40 chum, pink at mouth

123-12 ROSE CREEK ADF STAT. No. WC 23
54°57.2' N. 132°58.8' W. ADF No. 219

WEST COAST, KAIGANI STRAIT, ROSE INLET, Head.

MAJOR SPECIES Chum, pink. OTHER SPECIES
ESCAPEMENT TIMING Late. Sep. -Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 2.3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters Rose Inlet just N. of the old cannery site.
ANCHORAGE A warf at the head of the bay on the N. shore may be used for mooring.
TRAILS AND SURVEY ROUTES Easy to survey. A catwalk goes along the stream for most of its length.
AERIAL SURVEY NOTES Fair. A bluff follows the N. W. side of the stream.

INTERTIDAL ZONE

LENGTH 100 yards. AVERAGE WIDTH/DEPTH 20'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Boulders, covered with algae.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off the mouth.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE >0.5 mile. AVERAGE WIDTH/DEPTH 15'-20'/6".
GRADIENT AND VELOCITIES Steep.
BOTTOM Bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS The cannery had a reservoir dam for water supply 0.5 mile above the high tide mark.
TRIBUTARIES None.
SCHOOLING AREAS Very few small pools are available for schooling.
SPAWNING AREAS Spawning areas are very limited.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground survey are designated by G. Aerial survey by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1949								
Oct 4		FWS	750		1,500			
1953								
Sep 18	G 0.1	FWS	65					10 chum, 400 pink at mouth

123-11 COCO CREEK ADF STAT. No. WC 24
55°02.8' N. 133°04.9' W. Previous No. 57
ADF No. 218
WEST COAST, TLEVAK STRAIT, COCO HARBOR, Head. FWS No. 37C

MAJOR SPECIES Pink, chum. OTHER SPECIES
ESCAPEMENT TIMING Late. Sep. -Oct. (estimated) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair to good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 2.8 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES Wade stream and follow right bank.
AERIAL SURVEY NOTES Poor for aerial survey.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH 15'-20'/6"-7".
GRADIENT AND VELOCITIES
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION Where stream enters timber.
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.2 mile. AVERAGE WIDTH/DEPTH 8'-10'/6"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Large and small gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS In pools between riffles.
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 27		FWS	15,000		15,000			Excellent
1941								
Sep 10		FWS	25,000		4,000			Good
1944								
Oct 13		FWS	16,000		22,000			Excellent
1945								
Sep 24		FWS	2,000		1,000			Poor
1946								
Oct 20		FWS	12,000		20,000			Good
1947								
Oct 10		FWS	30,000		1,000			
1948								
Oct 19		FWS	8,000		25,000			Good
1949								
Oct 4		FWS	2,300		3,700			

ADF STAT. No.
WC 24
Previous No. 57
ADF No. 218
FWS No. 37C

123-11 COCO CREEK--Continued

ESCAPEMENT RECORD

SURVEYED			PINK		CHUM		OTHER SPECIES	REMARKS	
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective	rating

123-12 KASOOK LAKE CREEK ADF STAT. No. WC 25
55°02.7' N. 132°49' W. ADF No. 232
FWS No. 38A

WEST COAST, TLEVAK STRAIT, KASOOK INLET, Head.

MAJOR SPECIES Pink. OTHER SPECIES Reds.
ESCAPEMENT TIMING Late. Aug.-Sep. (estimated) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 2 square miles (polar planimeter) Drains a system of two lakes.
STREAM MOUTH IDENTIFICATION
ANCHORAGE A good anchorage is available just inside the short S.E. arm. Favor the S. shore when entering.
TRAILS AND SURVEY ROUTES The stream may be waded. A trail goes up the left bank.
AERIAL SURVEY NOTES Cannot survey from the air.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 25'-30'/8"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Large bedrock stones.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off the mouth.
SPAWNING AREAS The best spawning area is in the lower part of this zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.3 mile to lake. AVERAGE WIDTH/DEPTH 30'-40'/8"-12".
GRADIENT AND VELOCITIES Slight.
BOTTOM Large jagged boulders and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Beaver dams at the lake outlet.
TRIBUTARIES None.
SCHOOLING AREAS The fish school in small pockets.
SPAWNING AREAS Not much upstream spawning.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective rating
1949								
Aug 18	G 0.3	FRI						School of pink off mouth

ADF STAT. No.
WC 26
ADF No. 203
FWS No. 36C

122-14
55° 16.5' N, 133° 18.1' W.

WEST COAST, ULLOA CHANNEL, PORT REFUGIO, SE. corner.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sept.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good in lower stream.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 1.9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE The S.E. arm, inside of Point Boras, affords anchorage for small craft near its head.
TRAILS AND SURVEY ROUTES Up right bank to falls, then cross over.
AERIAL SURVEY NOTES Poor for aerial survey.

INTERTIDAL ZONE

LENGTH 0.25 mile. AVERAGE WIDTH/DEPTH 35'/8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS On flats off mouth.
SPAWNING AREAS In upper portion of stream.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.5 mile. AVERAGE WIDTH/DEPTH 20'/6".
GRADIENT AND VELOCITIES
BOTTOM Sand, gravel, and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
SCHOOLING AREAS Below falls.
SPAWNING AREAS Below falls.
GENERAL NOTES Very little spawning area above falls.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Oct 8		FWS	5,000		500			

122-14
55°16.6' N. 133°19.7' W.

ADF STAT. No.
WC 27
Previous No. 84
No ADF No.

WEST COAST, ULLOA CHANNEL, PORT REFUGIO, 0.3 miles from head on S. shore.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING. Late. Sep. -Oct. (estimated) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good where available.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 3.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Fair.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective rating
1942								
Sep 27		FWS	42,000		6,000			
1945								
Oct 8		FWS	90,000		6,000			Excellent
1947								
Oct 9		FWS	10,000		5,000			Good
1948								
Oct 20		FWS	10,000		2,000			Fair

122-13
55° 21. 2' N. 133° 13. 4' W.

ESTRELLA CREEK

ADF STAT. No.
WC 28
Previous No. 63
ADF No. 187
FWS No. 13

WEST COAST, BUCARELI BAY, PORT ESTRELLA, Head.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep. -Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 1. 9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The site of recent logging operations. A small tideflat..
ANCHORAGE Good anchorage at head of Port Estrella in fair weather, poor in N. E. winds.
TRAILS AND SURVEY ROUTES Can be waded at normal water levels. Cat roads can be found along the right side of the stream. Banks are very bushy.
AERIAL SURVEY NOTES Fair for aerial survey.

INTERTIDAL ZONE

LENGTH 0. 1 mile. AVERAGE WIDTH/DEPTH 10'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off mouth.
SPAWNING AREAS Limited to the upper portion.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE >1 mile. AVERAGE WIDTH/DEPTH 6-10'/6"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 20' barrier 1 mile upstream is impassable; no good spawning area above it.
TRIBUTARIES
SCHOOLING AREAS Pools are scattered throughout this area.
SPAWNING AREAS Spawning on all riffle areas throughout the distance surveyed.
GENERAL NOTES Stream suffers from recent logging activities.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
		FWS	18,000		1,000			
1942								
Sep 26		FWS	23,000		6,000			
1948								
Oct 20		FWS						Good. Chum excellent
1953								
Sep 11	G 0. 1	FWS	1	6				Stream flooded
1961								
Sep 2	G 0. 5	ADF	650		21			175 pink and chum at mouth, Stream suffers from recent logging

122-20 CALDERA CREEK WC 29

122-20 CALDERA CREEK ADF STAT. No. WC 29
55°21.7' N. 133°09.5' W. Previous No. 62
ADF No. 186
WEST COAST, BUCARELI BAY, PORT CALDERA, Head. FWS No. 14G

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep.-Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Glacial-cut. Heavily wooded in the lower 0.3 mile. Away from the streambanks there are some open areas.
DRAINAGE 3 square miles (polar planimeter). Precipitation fed.
STREAM MOUTH IDENTIFICATION The mouth lies at the S. end of Port Caldera and flows across a tideflat which covers the entire head end.
ANCHORAGE Port Caldera affords anchorage for small craft. Foul ground extends about 300 yards off Point Iphigenia, the N.E. headland at the entrance.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Poor for aerial survey.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two 30' falls 0.5 mile upstream are impassable.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941		FWS	10,000		1,000			Fair
1942 Sep 26		FWS	16,000		3,000			Fair
1945 Oct 6		FWS	140,000		1,000			Excellent
1953 Sep 11	G 0.1	FWS			42			
1961 Sep 12	A	ADF	900		300			600 pink and chum in bay

122 20

WC 30

122-20
55° 22.6' N. 133° 06.7' W.

ADF STAT. No.
WC 30
Previous No. 64

WEST COAST, BUCARELI BAY, TROCADERO BAY, 2.5 miles S.E. of Point Iphigenia.

MAJOR SPECIES Pink and chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep.-Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream passes through two gorges. Forks at the 1 mile point.
DRAINAGE 5.5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream enters Trocadero Bay <1 mile S. of the westerly group of islands at the bay entrance. A small tideflat is found at the mouth.
ANCHORAGE Trocadero Bay is clear except for its head end where there are numerous rocks.
TRAILS AND SURVEY ROUTES Wadeable.
AERIAL SURVEY NOTES Cannot be surveyed by air.

INTERTIDAL ZONE

LENGTH 50 yards. AVERAGE WIDTH/DEPTH 10'/3"-4".
GRADIENT AND VELOCITIES Steep.
BOTTOM Some gravel with mostly large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off the mouth.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile. AVERAGE WIDTH/DEPTH 10'/3".
GRADIENT AND VELOCITIES Steep.
BOTTOM Small gravel, boulders and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two gorges have 4' and 6' falls, both passable.
TRIBUTARIES None.
SCHOOLING AREAS Occasional small holes.
SPAWNING AREAS The gravel riffles offer fair spawning facilities.
GENERAL NOTES The stream splits and rejoins numerous times.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1953								
Sep 11	G 0.1	FWS						None observed
1960								
Aug 17	G 0.5	ADF	0		0			1,000 pink and chum at mouth
Sep 6	A	ADF	0		0			3,000 pink and chum at mouth
Sep 12	A	ADF	0		0			4,000 pink and chum at mouth
Sep 30	G 1.5	ADF	1,000		1,000			Few coho and chum at mouth

Winfall Area
HT
0.25 Mile

122-20
55°20.4' N. 133°02.2' W.

ADF STAT. No.
WC 31
Previous No. 65
ADF No. 184

WEST COAST, BUCARELI BAY, TROCADERO BAY, Head of bight 1.75 miles W. of Point Saint Sebastian.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep.-Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut. Runs in a S.E. direction.
DRAINAGE 2.6 square miles (polar planimeter). Precipitation fed.
STREAM MOUTH IDENTIFICATION The stream enters a small bay 2.2 miles E. of the wooded islands at the entrance to Trocadero Bay.
ANCHORAGE See WC 30.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Impossible to survey from the air. Comes out of a deep gorge.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 20'-25'/12"-15".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel and boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Stream has a number of very good, large, resting pools.
SPAWNING AREAS Stream has more than a mile of good spawning area, ranging from 35%-50%.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2 miles. AVERAGE WIDTH/DEPTH 10'-30'/5"-24".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Sand, gravel, and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Mile upstream is series of 4 falls, 12'-20' high; above there is little or no spawning area.
TRIBUTARIES
SCHOOLING AREAS Numerous pools in first one-fourth mile.
SPAWNING AREAS The left hand fork is partly fed by the main stream and is used by pinks for about 500 yards. The main stream is used by chums for a distance of 1 mile.
GENERAL NOTES Stream has lots of windfalls due to past logging activity.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1945								
Oct 6		FWS	220,000		6,000			Excellent
1947								
Oct 17	G 0.5	FWS	3,000		7,000			Excellent
1948								
Aug 19	G 1.0	ASI						No fish in stream
Aug 31	G 1.0	FRI						Few off mouth
Sep 20	G 1.0	ASI	2,900	10	3,600	16		Water at flood
Sep 21		FWS	7,000		10,000			Good
Oct 1	G 2.0	ASI	7,755	180	6,528	140		Fair
1949								
Aug 11	G 0.3	FRI						No fish in stream
1953								
Sep 11	G 0.3	FWS			82			
Sep 16	G 0.3	FWS	35		425			

ADF STAT. No.
WC 31
Previous No. 65
ADF No. 184

ESCAPEMENT RECORD--Continued

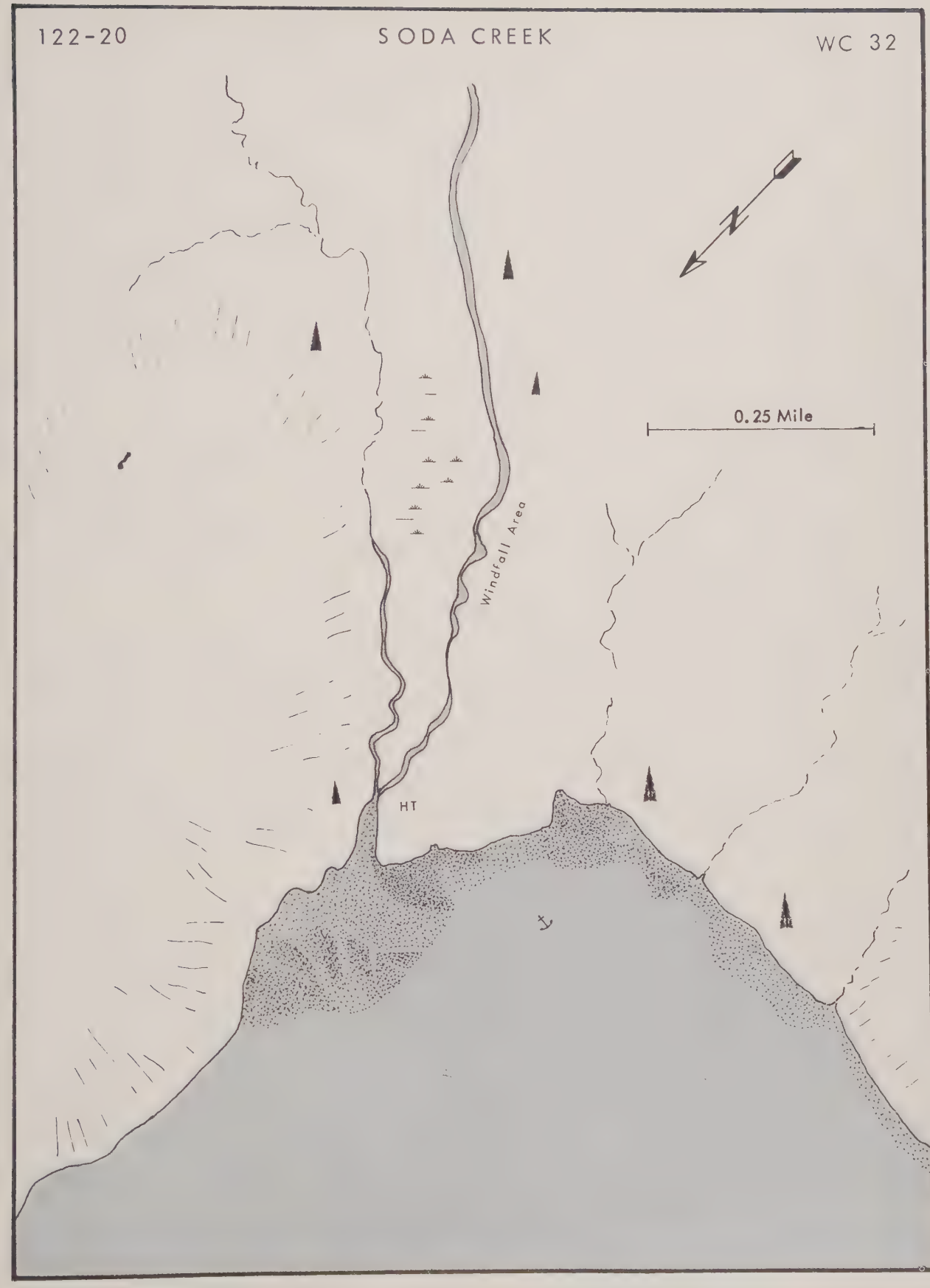
[Counts made by ground surveys are designated by G. Aerial surveys by A]

SURVEYED			PINK		CHUM		OTHER SPECIES	REMARKS	
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective	rating

122-20

SODA CREEK

WC 32



122-20
55° 20.6' N. 133° 00' W.

SODA CREEK

ADF STAT. No.
WC 32
Previous No. 50
ADF No 183

WEST COAST, BUCARELI BAY, TROCADERO BAY, 6 miles west of head.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep. -Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut. Streambanks are lined with patches of trees. Away from the banks there is considerable open ground.
DRAINAGE 5 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Off mouth in 7 fathoms.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Dark water makes aerial survey difficult.

INTERTIDAL ZONE

LENGTH 0.2 mile. AVERAGE WIDTH/DEPTH 25'/10".
GRADIENT AND VELOCITIES
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Pinks spawn in this zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2 miles. AVERAGE WIDTH/DEPTH 20'/15".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and small rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES A small stream from the mineral springs enters near the mouth.
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES Stream flows through recent logging works with subsequent downfalls and debris. Stream milky due to soda springs.

ESCAPEMENT RECORD

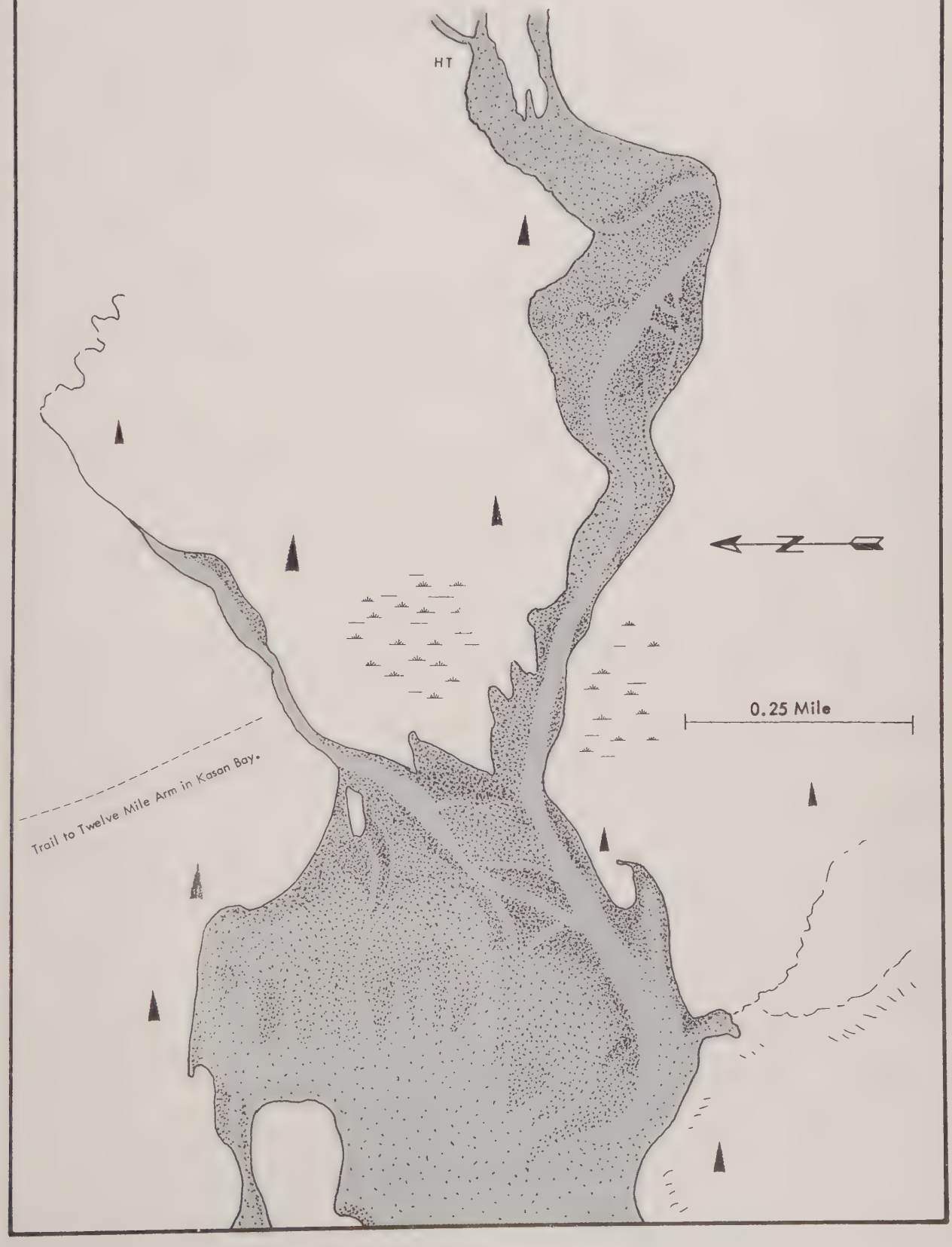
[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1943								
Oct 19		FWS	50,000		10,000			Excellent
1944								
Oct 19		FWS	16,000		6,500			Fair
1945								
Oct 7		FWS	41,000		1,000			
1949								
Sep 1		FWS	5,000					
1953								
Sep 11	G 0.1	FWS	55		46			Chum spawning

122-20

TROCADERO CREEK

WC 35



122-20 TROCADERO CREEK WC 35
55°21.2' N. 132°52.9'W. Previous No. 58
ADF No. 182A
WEST COAST, BUCARELI BAY, TROCADERO BAY, Head. FWS No. 14C

MAJOR SPECIES Pink OTHER SPECIES Chum, coho
ESCAPEMENT TIMING Late. Aug.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION A heavily wooded flat. The valley runs E. and then S. after splitting.
DRAINAGE 10.3 square miles (polar planimeter). Precipitation fed. Several ponds and muskeg areas. Snowfields at the headwaters contribute snowmelt at certain times of the year.
STREAM MOUTH IDENTIFICATION Enters the head of the bay through an extensive tideflat and joins WC 36 in the intertidal zone. This stream is the most southerly.
ANCHORAGE Small craft may be brought into a distance of 0.2 mile from the head. Anchor N. and E. of the largest wooded island.
TRAILS AND SURVEY ROUTES A skiff may be taken upstream several hundred yards. The stream is wadeable throughout the upper intertidal zone and upstream area.
AERIAL SURVEY NOTES Fair for aerial survey. Some overhanging trees and brush and a few deep areas inhibit visibility.

INTERTIDAL ZONE

LENGTH 1.5 miles AVERAGE WIDTH/DEPTH 30'/12".
GRADIENT AND VELOCITIES Moderate
BOTTOM Sand and gravel
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Three large pools near the upper end are utilized for schooling.
SPAWNING AREAS Some spawning takes place just below the high tidemark.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 5 miles AVERAGE WIDTH/DEPTH 25'/12"-18".
GRADIENT AND VELOCITIES Moderate
BOTTOM Mud, sand, and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Falls impassable to salmon at about 5 miles.
TRIBUTARIES A stream about half the volume of WC 35 enters 0.5 mile above the intertidal zone.
SCHOOLING AREAS Numerous pools throughout the entire stream.
SPAWNING AREAS Spawning occurs on all riffles.
GENERAL NOTES

ADF STAT. No.
WC 35
Previous No. 59
No. 182A
No. 14C

122-20

TROCADERO CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 19		FWS	21,000		5,000			Good
1944								
Oct 14		FWS	16,000		1,200			Good
1945								
Oct 2		FWS	90,000					Excellent
1948								
Aug 19	G 1.5	ASI	700		400			7,500 at mouth
Sep 1	G 2.5	ASI	8,000		3,200		310 coho	Many off mouth
Oct 1	G 4.0	ASI	35,200	478	3,680	167	720 coho	Fair
1949								
Aug 11	G 3.0	FRI	0		0			
Oct 1	G 0.5	FRI	2,000	260	100	20		Water colored
1952								
Sep 17	G 0.8	FWS	2,000	0	0			Poor visibility
1953								
Sep 11	G 0.8	FWS	40					Visibility poor
1954								
Sep 8	G 0.5	FRI						Few pink
1957								
Sep 24	G 0.5	FWS	890					
1960								
Aug 3	A	ADF	0		0			None at mouth
Aug 17	G 0.5	ADF	0		0			1,000 pink and chum at mouth
Sep 6	A	ADF	0		0			3,000 pink and chum at mouth
Sep 12	A	ADF	4,000		2,000			4,000 pink and chum at mouth
Sep 30	G 1.0	ADF	3,000		1,000			Few coho, chum at mouth 2,000 dead pink and chum
1961								
Aug 3	A	ADF	450					All in lower stream, 300 off mouth
Aug 12	G 1.2	ADF	550					2,000 pink at mouth, observation difficult, deep holes, water dark
Sep 1	G 1.2	ADF	580		5			Many fish in intertidal zone
1962								
Aug 15	A	ADF						Few pink in deep hole at head of intertidal zone
Aug 26	A	ADF						Few pink in intertidal zone
Sep 7	G 1.5	ADF	4,300					In holes in lower stream
Sep 20	G 1.0	ADF	390				2 coho	35 dead. Evidence of much spawning

122-20 WC 36
55° 21.2' N. 132° 52.9' W. Previous No. 59
ADF No. 182
WEST COAST, BUCARELI BAY, TROCADERO BAY, Head. FWS No. 14

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late (estimated).
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range Observed temperatures: 53° F., 8/18/50; 52° F., 8/28/50; 48° F., 9/7/50; 51° F., 9/17/50; 42° F., 10/2/50; 49° F., 8/18/51; 52° F., 8/29/51; 51° F., 9/21/51; 46° F., 10/3/51; 52° F., 8/31/52; 47.5° F., 9/9/52; 51° F., 9/22/52; 52° F., 9/4/53; 51.5° F., 9/13/53; 45° F., 9/28/53.
VALLEY DESCRIPTION
DRAINAGE 19.09 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the extreme head of Trocadero Bay and joins an outlet stream common to WC 35 about 300' above the low tide mark.
ANCHORAGE Refer to WC 35.
TRAILS AND SURVEY ROUTES At high tide a skiff can be taken to a point a short distance above the confluence. From here the banks and gravel bars may be followed. Wadeable at normal water levels.
AERIAL SURVEY NOTES Fair for aerial survey during low water periods.

INTERTIDAL ZONE

LENGTH 0.6 mile. AVERAGE WIDTH/DEPTH 40'/12"-18".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel with some interspersed large rock.
LOW TIDE LOCATION At the lower end of the grass flats.
HIGH TIDE LOCATION Where the stream enters the timber.
SCHOOLING AREAS In the main stream below the confluence and the long hole below the high tide mark.
SPAWNING AREAS Spawning takes place throughout.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE >2.5 miles. AVERAGE WIDTH/DEPTH 40'/8"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and rock.
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None.
SCHOOLING AREAS Pools are found throughout and offer excellent shelter for schooling salmon.
SPAWNING AREAS Spawning is scattered throughout all riffle areas.
GENERAL NOTES

ADF STAT. No.
WC 36
Previous No. 59

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

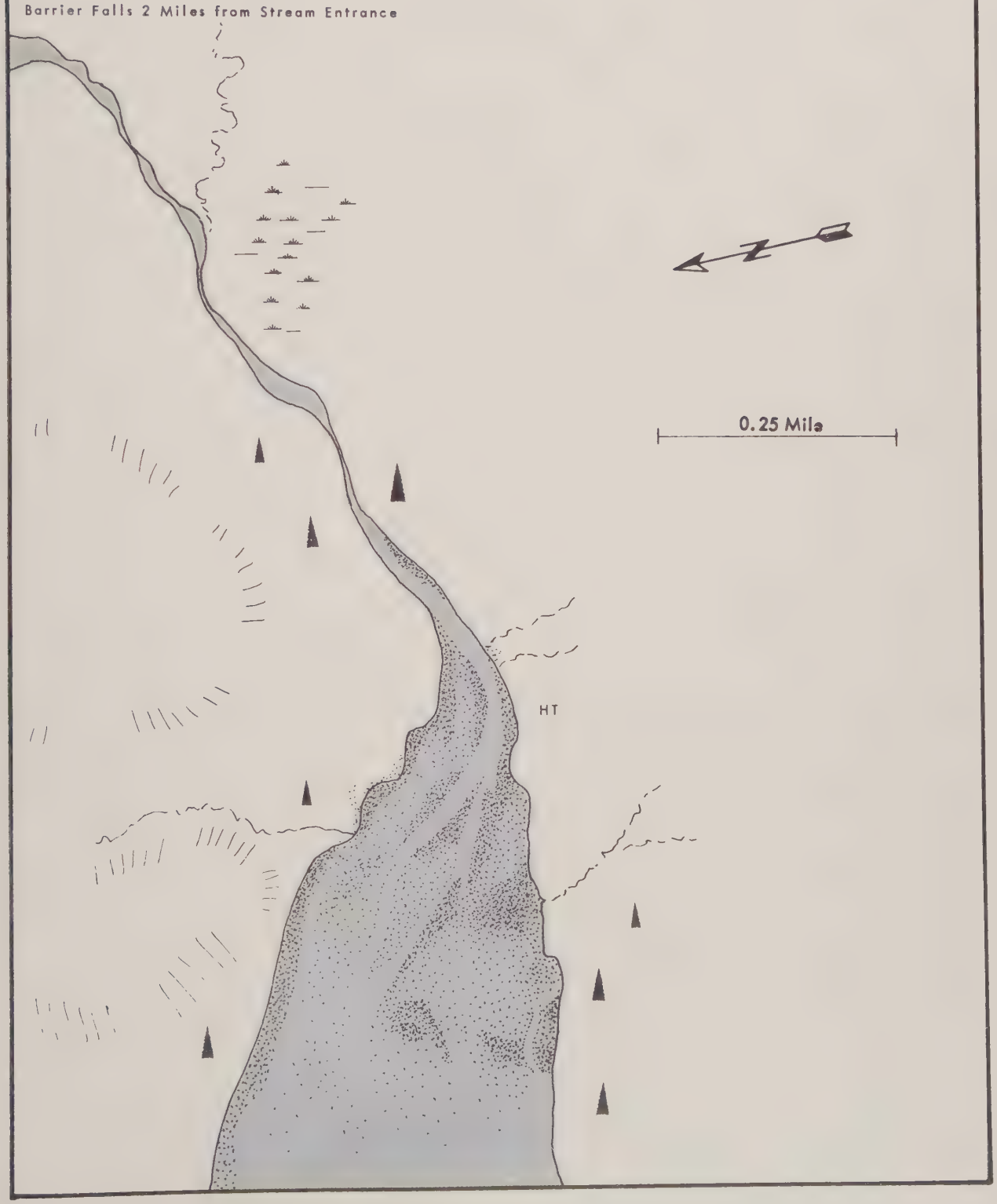
Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 19		FWS	40,000		4,000			Good
1941								
Aug 26		FWS	6,000					Poor
1942								
Sep 26		FWS	35,000		9,000			Good
1944								
Oct 4		FWS	23,000		1,000			Fair
1945								
Oct 2		FWS	85,000					
1947								
Oct 23	G 2.0	FWS						Fair. Few chum and pink
1948								
Sep 1	G 1.5	ASI	4,000		1,075		85 coho	
Sep 21	G 2.0	ASI	27,000	120	5,800	73	19 coho	Water high
Sep 21		FWS						Fair. Chum good
1949								
Aug 12	G 1.5	FRI	50	0	0	0		
Aug 27	G 1.5	FRI	200		5			500-1,000 estimated in stream
Sep 16	G 1.5	FRI	6,470		46		3 coho	
1950								
Aug 18	G 1.0	FRI	10	2	2	0		
Aug 28	G 1.0	FRI	462	0	120	0		1,000 off mouth
Sep 7	G 1.0	FRI	2,048	14	337	7	400 coho	
Sep 17	G 1.0	FRI	11,090	6	214	22		
Oct 2	G 0.5	FRI	7,250	700	28	19		
1951								
Aug 18	G 1.0	FRI	0	0	0	0		
Aug 29	G 1.0	FRI	5,630	0	20	0		No fish above high tidemark
Sep 21	G 1.0	FRI	8,800	0	30	0		
Oct 3	G 1.0	FRI	4,100	1,000	250			Some dead chum
1952								
Aug 31	G 1.0	FRI	3,650	0	70	0		Several thousand off mouth
Sep 9	G 1.0	FRI	5,250	0	170	0		Several jumps off mouth
Sep 17	G 0.3	FWS	1,000	0	0			Poor visibility
Sep 22	G 1.0	FRI	4,580	323	31		62 coho	Peak past
1953								
Sep 4	G 1.0	FRI	600	0	16	0	5 coho	Very few off mouth
Sep 13	G	FRI						No visibility
Sep 28	G 1.0	FRI	535		35		6 coho	Several chum, pink dead
Sep 11	G 1.0	FWS	390		2			Stream slightly high
1954								
Sep 8	A 1.0	FRI	1,200	0				Several thousand at mouth
Sep 17	G 1.0	FRI	3,360	20	100			5,000 chum, pink, coho at mouth
Sep 25	A 1.0	FRI	6,000					Few chum. Some dead pink
1955								
Aug 19	A 1.0	FRI						Few pink. Weir being constructed
1956								
Sep 20	A 1.0	FRI	30,000					5,000 above marker
Sep 29	A 1.0	FRI	20,000					3,000 above marker
1957								
Sep 24	G 0.3	FWS	3,800					
1959								
Sep 18	A	ADF	3,500					None at mouth

ADF STAT. No.
WC 36
Previous No. 59

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys byA]

Date	SURVEYED Miles	By	PINK Live	Dead	CHUM Live	Dead	OTHER SPECIES Live	REMARKS Adjective rating
1961								
Aug 3	A	ADF	225					All in lower stream, 100 at mouth
Aug 12	G 2.0	ADF	2,250					2,000 pink at mouth
Sep 1	G 1.2	ADF	4,200		10			Fish spawning, some fresh
1962								
Aug 18	A	ADF	400					Fish in lower stream
Aug 26	A	ADF	4,800					All in lower stream
Sep 3	A	ADF	8,300					Most fish in lower stream
Sep 7	G 1.5	ADF	7,300		200			3,000 at mouth
Sep 20	G 1.5	ADF	4,900		40			2,000 dead


Barrier Falls 2 Miles from Stream Entrance
0.25 Mile
HT

122-20
55° 27' N. 132° 59.2' W.

ADF STAT. No.
WC 37
Previous No. 49
ADF No. 180
FWS No. 15

WEST COAST, BUCARELI BAY, PORT ST. NICHOLAS, Head.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Aug.-Oct. (estimated). ESCAPEMENT MAGNITUDE 20,000 est.
SPAWNING FACILITIES Fair to good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION A shallow valley with dense stands of trees at the mouth. Ground becomes more open upstream.
DRAINAGE 12.4 square miles (polar planimeter). Lake fed. Some large muskeg areas.
STREAM MOUTH IDENTIFICATION Enters the head of St. Nicholas Bay. A 0.5 mile tideflat is at the mouth.
ANCHORAGE Good anchorage can be found in Port St. Nicholas. A stream-built bar at the head of the bay makes the bay shallow rapidly.
TRAILS AND SURVEY ROUTES No well defined trails. Wadeable in certain areas.
AERIAL SURVEY NOTES Poor aerial visibility due to overhanging brush and trees and dark water.

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 30'/6"-8"
GRADIENT AND VELOCITIES Moderate.
BOTTOM Fine gravel in lower part, coarse above.
LOW TIDE LOCATION
HIGH TIDE LOCATION Several hundred yards above the tree line.
SCHOOLING AREAS The large pool just below the high tide mark.
SPAWNING AREAS Salmon spawn throughout this area. A good spawning area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE >1 mile. AVERAGE WIDTH/DEPTH 20'-30'/8"-12"
GRADIENT AND VELOCITIES Moderate.
BOTTOM Sand, gravel, and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 30' falls 1.5 miles upstream is a total block. A smaller 6' falls about halfway to the upper falls does not present a block.
TRIBUTARIES None.
SCHOOLING AREAS Numerous pools.
SPAWNING AREAS Good spawning riffles are found up to the first falls, above this there is fair stretch of spawning gravel.
GENERAL NOTES Several areas of bedrock in first 0.5 mile.

122-20

ADF STAT. No.
WC 37
Previous No. 49
ADF No. 180
FWS No. 15

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
Sep 11		FWS	9,000		3,000			Heavy run in progress
1942								
Sep 25		FWS	80,000		18,000			Excellent
1943								
Oct 19		FWS	100,000		20,000			Excellent
1944								
Oct 19		FWS	30,000		6,000			Good
1948								
Sep 22		FWS	45,000					Good. Chum good
1952								
Sep 17	G 0.2	FWS	3,800	0	200	0		
1953								
Sep 11	G 0.1	FWS	50		230		1 coho	Visibility poor. Stream high
Sep 17	G 0.3	FWS	330		550	1		Water high
1954								
Sep 8	A 2.0	FRI	1,000	0				Several thousand at mouth
Sep 25	A 2.0	FRI	>5,000					None observed off mouth
1955								
Sep 28	A 2.0	FRI	25,000					Many dead pink
1957								
Sep 5	G 2.0	FWS	100					Visibility poor
Sep 24	G 1.3	FWS	6,000	300	3,000	2,000		1,000 chum, 2,000 pink at mouth
1960								
Aug 17	G 1.5	ADF	200		300			1,000 pink and chum at mouth
Sep 6	A	ADF	700		500			3,000 pink and chum at mouth
Sep 12	A	ADF	2,000		3,000			2,000 pink and chum at mouth
Sep 30	A	ADF	1,500		2,000		30 coho	None at mouth
1961								
Aug 1	G 2.0	ADF	1,435					2,500 pink at mouth, fresh and mature
Sep 1	G 0.7	ADF	4,320		25		1 red	1,000 pink at mouth, many spent fish
1962								
Aug 14	G 0.7	ADF						170 pink and chum in stream 600-700 pink at mouth
Sep 3	A	ADF						20,000 pink and chum at mouth
Sep 6	G 2.0	ADF	1,660		600			5,000 pink and chum at mouth
Sep 10	A	ADF						Many pink in stream, heavy spawning
Sep 20	G 1.5	ADF	18,700		1,120			2,500 dead, spawning

122-20
WC 38
Windfall Area
N
0.25 Mile
Windfall Area
HT

122-20
55°27.3' N. 133°01.8' W.

ADF STAT. No.
WC 38
Previous No. 69
No ADF No.

WEST COAST, BUCARELI BAY, PORT ST. NICHOLAS, 2 miles from head on N. shore.

MAJOR SPECIES Pink, chum. OTHER SPECIES
ESCAPEMENT TIMING Late. Sep.-Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut. N. of the valley there are mountains with large snowfields. The entire valley is heavily wooded.
DRAINAGE 2 square miles (polar planimeter). Precipitation fed.
STREAM MOUTH IDENTIFICATION A short tideflat is found at the mouth which is situated on a prominent point.
ANCHORAGE Refer to WC 37.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Easily surveyed by air.

INTERTIDAL ZONE

LENGTH Very short. AVERAGE WIDTH/DEPTH 8'-12'/10"-12".
GRADIENT AND VELOCITIES Steep.
BOTTOM Large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile. AVERAGE WIDTH/DEPTH 10'-15'/7"-12".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Boulders and gravel - some sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 6' falls at upper end of stream is impassable, at least to pink.
TRIBUTARIES
SCHOOLING AREAS Holes are found alternately with shallow areas.
SPAWNING AREAS Possibly 1 mile of stream has available spawning areas. Only a few good riffles are present. Fair spawning gravel is found above falls.
GENERAL NOTES This is a very small stream about 1 mile long. Logged off on both sides.

ESCAPEMENT RECORD

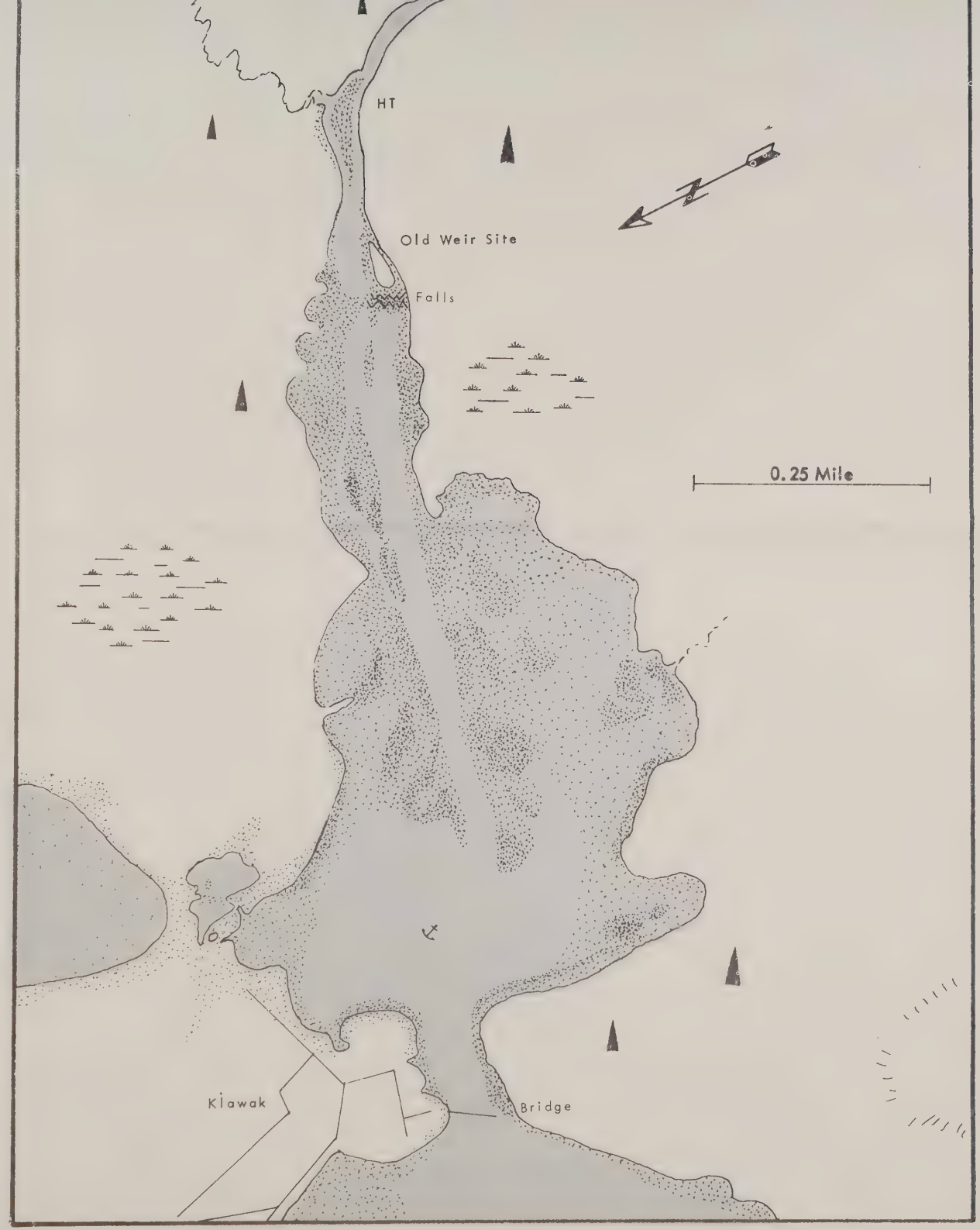
[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1945 Oct 7		FWS	120,000		1,400			Excellent
1948 Sep 22		FWS	1,000		20,000			Good
1949 Aug 12	G 0.3	FRI						No fish in stream
1953 Sep 11	G 0.1	FWS			220			Good showing of chum of mouth

122-20

KLAWAK CREEK

WC 39


HT
Old Weir Site
Falls
0.25 Mile
Klawak
Bridge

122-20
55°33.1' N. 133°04.7' W.

KLAWAK CREEK

ADF STAT. No.
WC 39
Previous No. 60
ADF No. 178
FWS No. 17

WEST COAST, KLAWAK INLET, KLAWAK HARBOR, Head.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Red, coho.
ESCAPEMENT TIMING Late. Aug.-Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. Observed temperatures: 65°F., 8/19/50; 58°F., 8/29/50; 57.5°F., 9/7/50; 55°F., 9/8/50; 57°F., 9/18/50; 61°F., 8/12/51; 59°F., 8/22/51; 62°F., 9/1/51; 58°F., 9/12/51; 59°F., 9/22/51; 65°F., 8/9/52; 61.5°F., 8/19/52; 60°F., 9/1/52; 55°F., 10/3/52; 63.5°F., 8/9/53; 62.5°F., 8/19/53; 59°F., 9/8/53.
VALLEY DESCRIPTION The stream runs through a flat area between Klawak Lake and Klawak Harbor. The streambanks are forested, but a short distance from each bank there are open areas.
DRAINAGE 47 square miles (polar planimeter). Drains Klawak Lake which is about 7.5 miles long and 0.7 mile wide. Numerous small streams empty into the lake.
STREAM MOUTH IDENTIFICATION The stream enters a small lagoon just E. of Klawak. The lagoon outlet is narrow and passes under a bridge just above the harbor.
ANCHORAGE A dock is available for mooring at the settlement of Klawak.
TRAILS AND SURVEY ROUTES A skiff may be taken upstream to the small falls. Travel up the stream is difficult due to deep water and numerous boulders. A trail follows the right bank from the mouth to Klawak lake.
AERIAL SURVEY NOTES Satisfactory aerial surveys may be made at time when the water level isn't high. When water is up, both water depth and dark color inhibit visibility.

INTERTIDAL ZONE

LENGTH 0.6 mile.
AVERAGE WIDTH/DEPTH 150'-250'/36"-60"
GRADIENT AND VELOCITIES Slight.
BOTTOM Mostly large boulders with some gravel.
LOW TIDE LOCATION About halfway up the lagoon..
HIGH TIDE LOCATION At the 2' falls, just above the end of the tideflats.
SCHOOLING AREAS Most of the schooling is below the low tide mark and in Klawak Harbor.
SPAWNING AREAS Spawning occurs from the small falls at the high tide mark down stream a distance of about 300 yards.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles to lake.
AVERAGE WIDTH/DEPTH 125'-200'/18"-36"
GRADIENT AND VELOCITIES Moderate.
BOTTOM Sand, gravel, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS There is a 15', stepped falls which is not a block to salmon at the lake outlet.
TRIBUTARIES Klawak lake has numerous tributaries.
SCHOOLING AREAS Numerous large pools are utilized for schooling. The fish school very heavily just below the lake in a long deep pool.
SPAWNING AREAS The best spawning area is found just above the intertidal zone and below the lake.
GENERAL NOTES A large number of the fish entering this river spawn in Klawak lake and its many tributaries. The extent of lake spawning is not known.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1930								
Season	Weir	USBF	1,407,912		15,615		13,240 coho, 6,892 red	Final total. Weir installed July 12
1931								
Season	Weir	USBF	535,967		151,545		6,322 coho, 35,580 red	Final total. Weir installed June 5
1932								
Season	Weir	FWS	186,090		264,812		7,113 coho, 58,286 red	Final total. Weir installed May 29
1934								
Season	Weir	FWS	391,163		16,294		7,304 coho, 16,375 red	Final total. Weir installed June 3
1935								
Season	Weir	FWS	422,812		32,913		6,938 coho, 19,962 red	Final total. Weir installed May 29
1936								
Season	Weir	FWS	594,692		37,389		9,951 coho, 65,178 red	Final total. Weir installed June 11
1937								
Season	Weir	FWS	672,271		13,625		2,578 coho, 33,491 red	Final total. Weir installed June 3
1938								
Season	Weir	FWS	357,751		22,209		4,398 coho, 15,368 red	Final total. Weir installed May 25
1947								
Oct 5	G 1.3	FWS	275,000		15,000			Excellent
1948								
Aug 20	G 1.5	ASI	1,800		1,350		35 coho	Many fish in the bay
Sep 5	G 1.5	ASI						Estimated 300,000 fish
Sep 30	G 1.5	ASI	830,000	50,000	150,000	17,000		First 300,000 have spawned and died 100,000 off mouth
1949								
Aug 12	G 1.5	FRI	1,000		0			
Aug 29	G 1.5	FRI	187,000					
Sep 16	G 1.5	FRI	750,000	8		10		
Sep 30	G 1.5	FRI	997,000	10,000	60,000	98,000		
1950								
Aug 19	G 1.5	FRI	30	0	15	0	160 red	2,000 off mouth
Aug 29	G 1.5	FRI	10,000	0	375	0	100 coho	2,000-3,000 off mouth
Sep 2	G 1.5	FRI	27,000	2	125	1		
Sep 8	G 1.5	FRI	12,950	3	2,560	6		15,000-20,000 chum, pink off mouth
Sep 9	G 1.5	FRI	15,284	0	10,000	0		
Sep 18	G 1.5	FRI	14,760	60	18,130	2,807		Many in bay
Oct 3	G 1.5	FRI	60,000	3,500	31,200	68,000		30,000-50,000 in bay, mostly chum
Oct 6	G 1.5	FRI	63,000	4,500	4,200	78,000		30,000-50,000 in bay and lagoon
1951								
July 12	G 0.7	FRI						No fish seen
Aug 12	G 1.5	FRI	100	0	0	0	200 coho	Several thousand red below lake
Aug 22	G 1.5	FRI	250	0	2,100	0		50 pink above high tide mark
Sep 1	G	FRI	550	0	210	0		
Sep 12	G 1.5	FRI	17,000	0	5,800	0		Poor visibility
Sep 22	G 1.5	FRI	19,000	150	45,000	500		30,000-40,000 chum off mouth
Oct 3	G 1.0	FRI	9,000	300	15,000	6,000		10,000 chum, pink off mouth
1952								
Aug 9	G 1.0	FRI	0	0	2	0	200 red	Water extremely low. Red off mouth
Aug 19	G 1.0	FRI		0	1,000	0		No pink observed
Sep 1	G 1.0	FRI	1,500	0	300	6	Some coho	Several thousand off mouth
Sep 10	G 1.0	FRI	2,500	0	330	0	270 coho	
Sep 18	G 3.3	FWS	3,000	5	0	3		Pink above falls. Jumps in lagoon
Sep 19	G 1.0	FRI	3,700		3,030		150 coho	Few dead chum, pink. Chum in lagoon

KLAWAK CREEK - Continued

ADF STAT. No. WC 39
Previous No. 60

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1952								
Sep 29	G 1.0	FRI	12,000		28,000			Numerous dead chum, pink
Oct 3	G 1.0	FRI	7,000		20,000			Many dead chum, pink. Spawning
1953								
Aug 9	G 1.0	FRI	190	0	2	0		
Aug 19	G 1.0	FRI	0	0	1	0		
Aug 28	G 0.8	FWS						10,000 pink at mouth
Sep 7	G 1.0	FRI	1,800	0	100		100 coho	Some in harbor
Sep 12	G 0.8	FWS					Few coho	3,000 chum and pink
Sep 17	G 0.5	FRI						River in flood. No visibility
Sep 23	G 1.0	FRI	5,000		12,000	>500	Coho present	Some dead pink. Water high
Oct 1	G 1.0	FRI	7,300	200	30,000	2,000	Coho present	Several thousand chum off mouth
1954								
Sep 8	A 1.0	FRI	500	0				Some chum. 20,000 chum at mouth
Sep 18	G 1.0	FRI	2,600		900			Some dead chum, pink. Many at mouth
Sep 25	A 1.0	FRI	34,000		19,000			10,000-15,000 chum at mouth
1955								
Aug 19	A 1.0	FRI					3,000 red	Few chum, pink. Water colored
Aug 28	A 1.0	FRI	2,000					Chum present. Coho, red in pools
Sep 5	A 1.0	FRI	>5,000					>10,000 est. in pools below lake
Sep 16	A 1.0	FRI	30,000		5,000			Many jumps in lagoon
Sep 23	A 1.0	FRI	50,000		20,000			Many above marker
Sep 28	A 1.0	FRI	140,000					Some chum. Many dead chum, pink
1956								
Aug 26	A 1.0	FRI	200					None seen in lagoon
Sep 7	A 1.0	FRI	2,500					Klawak inlet has many jumpers
Sep 17	A 1.0	FRI	4,000					Some chum. Few dead pink
Sep 23	A 1.0	FRI						70,000 chum, pink. 30,000 at mouth
Sep 28	A 1.0	FRI	>100,000		>50,000			Few dead chum, pink
1957								
Aug 25	A 1.5	FRI	>500	0				>12,000 chum off mouth
Sep 2	A 1.5	FRI	>3,000	0	2,000	0		Many in lagoon
Sep 4	G 1.5	FWS	17,850					4,000 pink off mouth
Sep 9	A 1.5	FRI	>5,000		>10,000			Many chum off mouth
Sep 22	A 1.5	FRI	20,000		>60,000			50,000-100,000 chum at mouth
1958								
Aug 25	A 1.5	FWS						Visibility poor. Fish present
Sep 7	A 1.5	FWS	2,000					Visibility poor. Jumps in lagoon
1960								
June 20	G	ADF	0		0			1,000 red at mouth
July 1	G	ADF	0		0			1,500 red at mouth
July 12	G	ADF	0		0			1,000 red at mouth
July 22	G	ADF	0		0			Few red at mouth
July 28	G	ADF	0		0			Few red and pink at mouth
Aug 5	G	ADF	0		0			Red, pink and chum at mouth
Aug 17	G 1.0	ADF	300		200			Few pink and chum at mouth
Aug 30	A	ADF	4,000		2,000		500 coho	3,000 pink and chum at mouth
Sep 6	G	ADF	8,000		7,000			5,000 pink and chum at mouth
Sep 15	G	ADF	10,000		8,000			3,000 pink and chum at mouth
Sep 18	G 1.0	ADF	9,000		6,000		400 coho	2,000 chum, 1,500 coho at mouth
Sep 27	A	ADF	3,000		2,000			Few coho and chum at mouth

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1961								
Aug 3	A	ADF						Few pink and chum at mouth, fish in intertidal but visibility poor
Aug 15	A	ADF	300					Fish in stream but water dark
Sep 4	G 0.5	ADF	3,160					None observed off mouth
Sep 12	A	ADF	22,000		2,500			Mostly fresh fish
Sep 27	A	ADF	7,600	6,000	5,300	2,500		Dead washing downstream
1962								
Aug 2	A	ADF	800					Fish in hole below lake but visibility poor
Aug 15	A	ADF	200					Fish in two deep holes below lake
Sep 3	A	ADF	24,800					6,000 pink and chum at mouth, few in intertidal, visibility excellent

ADF STAT. No.
WC 39
Previous No. 60
ADF No. 178
FWS No.. 17

122-20

KLAWAK CREEK

U. S. Bureau of Fisheries Weir Counts

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
July 13								
14				2				
15				25				
16								
17								
18				179				
19				69				
20				57				
21				733				
22				206				
23				385				
24				1,270				
25				1,315				
26				59				
27				24				
28				234				
29	12			76				
30				89				
31	26			243				
Aug 1	13			45				
2	12			122				
3	5			27				
4	23			141				
5	54			223				
6	27			35				
7	22			18				
8	39	6		148				
9	13	3		36				
10	76	11		64				
11	60	6		28				
12	69	4		81				
13	4,643	262		196				
14	3,062	122		42				
15	3,110	99						
16	737	33		21				
17	3,335	43	90	32				
18	4,978	46	46	43				
19	3,893	56	24	22				
20	20,891	141	32	53				
21	10,427	111	28	38				
22	13,695	310	58	56				
23	8,041	212	61	34				
24	16,337	172	114	18				
25	15,242	117	56	22				
26	9,892	73	31	13				
27	9,306	8	6	20				
28	20,949	16	88	11				
29	33,501	23	49	28				
30	20,619	19	58	17				
31	8,936	12	8	10				
Sep 1	12,872	8	33	22				
2	18,331	3	43	52				
3	9,578	13	27	14				
5	24							

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
Sep 6								
7								
8								
9								No salmon counted through weir, water low
10								
11								
12								
13								
14	68		7	3				
15	14,960	5	292	33				
16	109,354	102	619	24				
17	154,650	96	890	18				
18	268,125	340	2,005	62				
19	203,734	463	1,850	26				
20	146,765	4,030	2,670	12				
21	189,550	6,020	3,122	8				
22	56,436	2,281	846					
23	10,080	205	86					
24	692	142						
25								
26								
27								
Total	1,407,912	15,615	13,240	6,892				
1931								
June 5				7				
6				3				
7				5				
8				17				
9								
10				2				
11				4				
12				8				
13				11				
14				5				
15				19				
16				10				
17				16				
18				11				
19				22				
20				31				
21				49				
22				106				
23				17				
24				12				
25				214				
26				546				
27				199				
28				91				
29				118				
30				418				
July 1				62				
2				125				
3				182				
4				194				
5				420				
6				35				

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
July 7				1,164				
8				51				
9				727				
10				368				
11				328				
12				843				
13				809				
14				604				
15				1,434				
16				718				
17				730				
18				545				
19				196				
20				718				
21				963				
22				237				
23				392				
24				188				
25				1,411				
26	4			771				
27	13			1,863				
28	6			1,262				
29	3			404				
30	8			615				
31	2			843				
Aug 1	5			709				
2				348				
3	2			242				
4	16			529				
5	11			577				
6	102			179				
7	261			354				
8	270			51				
9	648			67				
10	827			189				
11	1,490			87				
12	2,987		19	277				
13	2,839		13	173				
14	1,794		21	507				
15	3,685		41	493				
16	3,691		32	373				
17	2,910		21	271				
18	2,382		11	599				
19	3,392		6	531				
20	1,235		14	651				
21	7,175		36	683				
22	9,680		60	837				
23	10,063	21	68	922				
24	47,623	30	1,008	1,236				
25	43,500	3	52	604				
26	30,410	6	89	343				
27	43,579	11	243	342				
28	96,060	773	363	249				
29	29,090	106	162	110				
30	23,004	89	434	103				
31	24,245	66	235	84				

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
Sep 1	13,838	62	240	41				
2	22,679	347	224	29				
3	11,556	145	102	18				
4	13,401	1,194	95	14				
5	13,230	1,412	147					
6	9,061	885	116					
7	3,671	365	122					
8	5,486	739	131					
9	7,703	2,648	159					
10	5,624	2,932	133					
11	5,308	2,277	63					
12	2,113	2,653	72					
13	1,931	3,167	59					
14	1,199	2,160	42					
15	606	2,101	18					
16	469	2,839	9					
17	418	2,610	3					
18	236	1,946	2					
19	106	1,586						
20	236	5,531						
21	214	4,768						
22	163	4,574						
23	150	2,383						
24	222	3,110						
25	116	2,559						
26	184	3,403						
27	219	7,856						
28	598	11,287	12					
29	267	7,616	9					
30	920	8,970	84					
Oct 1	3,750	14,767	352					
2	6,665	17,955	591					
3	4,121	9,055	201					
4	656	1,761	54					
5	292	1,120	17					
6	213	542	14					
7	175	1,096	8					
8	3,678	8,317	252					
9	1,084	1,264	55					
10	397	438	8					Weir taken out October 10
Total	535,967	151,545	6,322	35,580				
1932								
May 30								Weir installed
31				9				
June 1				5				
2				8				
3				15				
4				9				
5								
6								
7								
8				4				
9				3				
10				11				
11				94				
12				243				
13				3				

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1932								
June 14				8				
15				5				
16				598				
17				439				
18				158				
19				226				
20				876				
21				209				
22				226				
23				690				
24				290				
25				241				
26				450				
27				100				
28				20				
29				655				
30				1,376				
July 1				2,229				
2				4				
3				188				
4				930				
5				666				
6				632				
7				398				
8				697				
9				1,887				
10				1,481				
11				280				
12				1,169				
13				2,669				
14				3,713				
15				669				
16				523				
17				398				
18				1,780				
19				802				
20				1,121				
21				968				
22				229				
23				479				
24				237				
25				1,002				
26				467				
27				1,304				
28	2			977				
29				896				
30	3			847				
31	5		3	1,030				
Aug 1	2	2	2	1,284				
2	4	11	5	827				
3		15	5	656				
4	18	4	12	1,132				
5		3	7	607				
6	21	2	1	589				
7	17	3	21	723				
8	364	2	4	937				
9	112	14	10	700				

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp..	Remarks
1932								
Aug 10	767	2	8	426				
14	1,304	5	9	116				
15	1,365	5	17	151				
16	463	3	23	87				
17	591	4	18	212				
18	637	2	8	426				
19	316	1	9	293				
20	512	3	117	349				
21	753	16	28	373				
22	436	4	1	283				
23	534	14	3	398				
24	117	27	6	416				
25	67	9	3	222				
26	434	24	6	437				
27	1,118	39	2	130				
28	14,218	475	646	1,232				
29	16,947	145	196	1,300				
30	6,144	123	458	855				
31	25,652	1,614	1,249	2,197				
Sep 1	20,158	4,767	998	744				
2	13,335	1,439	307	186				
3	10,657	3,252	159	108				
4	5,718	2,453	151	64				
5	5,312	1,228	263	99				
6	1,376	418	47	23				
7	2,571	898	42	35				
8	1,685	1,458	72	31				
9	10,236	14,415	356	67				
10	2,118	4,485	74	12				
11	1,092	2,679	51	32				
12	2,591	11,088	252	24				
13	3,145	16,495	306	21				
14	2,141	10,268	224	26				
15	1,072	4,699	41	18				
16	4,890	37,836	331					
17	931	6,931	81					
18	600	2,770	35					
19	235	3,175	31					
20	213	2,916	9					
21	125	2,790	7					
22	1,330	25,980	155					
23	1,101	9,900	32					
24	226	2,415	8					
25	196	4,681	5					
26	256	4,617	3					
27	325	5,988						
28	543	4,929	6					
29	1,036	7,775	8					
30	3,909	17,203	37					
Oct 1	5,339	21,889	46					
2	1,590	7,962	9					
3	394	4,032	6					
4	410	3,229	3					
5	353	3,527	3					
6	98	1,624						
7								Weir dismantled Oct 7
Total	186,090	264,812	7,113	58,286				

1933

No weir for this year

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1934								
June 3								
4				1				
5				1				
6				2				
7				10				
8				100				
9				29				
10				4				
11				2				
12				86				
13				1				
14				5				
15				72				
16				22				
17				62				
18				137				
19				62				
20				64				
21				110				
22				15				
23				134				
24				281				
25				348				
26				34				
27				472				
28				113				
29				375				
30				548				
July 1				276				
2				214				
3				203				
4				156				
5				178				
6				17				
7				182				
8				191				
9				169				
10				343				
11				647				
12				227				
13				275				
14				320				
15				353				
16				1,557				
17				557				
18				646				
19				375				
20				646				
21				272				
22				255				
23				276				
24				302				
25				557				
26				294				
27				290				
28				350				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1934								
July 29				241				
30	10			157				
31	24			286				
Aug 1	11			298				
2	34			310				
3	103			321				
4	103			306				
5	82			116				
6	80			104				
7	35			72				
8	209			152				
9	135			100				
10	52			33				
11	43			10				
12	50	1		10				
13	12	2		14				
14	17	1		11				
15	26	4		11				
16	87	8		25				
17	58	1		19				
18	7,145	201	200	20				
19	7,709	147	201	61				
20	7,727	50	228	57				
21	3,608	12	143	23				
22	3,886	5	167	22				
23	5,493	6	243	20				
24	9,577	6	191	16				
25	3,827	1	100	15				
26	4,899		89	28				
27	3,063	4	157	10				
28	2,265	2	89	6				
29	3,434	2	132	7				
30	3,590	5	36	3				
31	15,459	35	114	45				
Sep 1	12,907	92	58	62				
2	14,728	86	37	27				
3	15,451	23	40	14				
4	13,155	18	51	9				
5	14,656	56	150	21				
6	32,078	87	251	61				
7	42,615	86	412	35				
8	51,352	208	431	64				
9	13,184	96	108	18				
10	3,685	43	86	6				
11	2,932	32	100	5				
12	2,229	30	19					
13	1,860	33	13					
14	6,419	216	402	4				
15	3,719	64	62	2				
16	2,114	86	12					
17	7,301	658	193					
18	3,219	231	84					
19	431	126	16					
20	721	181	13					
21	1,242	264	17					
22	1,461	560	24					

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1934								
Sep 23	1,264	642	6					
24	1,633	763	8					
25	1,142	832	4					
26	1,374	687	7					
27	1,432	972	12					
28	1,261	856	5					
29	1,121	920	2					
30	976	623	6					
Oct 1	1,123	540						
2	842	735	11					
3	1,581	650	6					
4	5,692	583	53					
5	9,463	934	211					
6	27,474	2,045	1,816					
7	1,831	84	124					
8	2,642	659	381					
9								
10								
Total	391,163	16,294	7,304	16,375				
1935								
May 29				2				
30				2				
31								
June 1								
2								
3				6				
4								
5				4				
6				7				
7				1				
8				38				
9				8				
10				12				
11				208				
12				9				
13				84				
14				44				
15				131				
16				39				
17				41				
18				67				
19				6				
20				7				
21				60				
22				104				
23				17				
24				131				
25				115				
26				106				
27				84				
28				25				
29				45				
30				72				
July 1				19				
2				31				
3				474				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1935								
July 4				325				
5				81				
6				142				
7				121				
8				399				
9				461				
10				256				
11				110				
12				1,408				
13				810				
14				464				
15				254				
16				322				
17				353				
18				108				
19				13				
20				39				
21				52				
22				730				
23				62				
24				76				
25				55				
26				396				
27				451				
28	4			609				
29	12			329				
30	4			159				
31	8			150				
Aug 1	7			191				
2	6			104				
3	17			101				
4	58			126				
5	64			379				
6	1,767			602				
7	1,984			547				
8	1,942	26		914				
9	4,203	68		592				
10	5,235	23		726				
11	3,562	43	3	302				
12								
13	2,008	18	2	217				
14	6,139	11	34	388				
15	7,765	8	104	220				
16	11,367	133	182	142				
17	13,311	46	163	170				
18	9,350	1	31	155				
19	11,372		120	371				
20	11,479	9	131	157				
21	7,684	7	111	124				
22	19,856	12	78	375				
23	20,053	16	52	284				
24	18,031	78	128	281				
25	18,599	46	116	186				
26	20,103	42	200	161				
27	16,100	40	150	204				
28	14,167	2	215	100				

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1935								
Aug 29	8,015	3	265	57				
30	4,623	6	82	86				
31	3,723	8	51	88				
Sep 1	4,721		42	56				
2	4,042		74	32				
3	4,963	4	67	64				
4	3,641	8	64	78				
5	2,817	4	43	46				
6	3,496	6	15	41				
7	2,641	7	14	24				
8	1,241	1	3	14				
9								
10	3,301	19	17	36				
11	2,156	14	15	25				
12	1,843	41	11	32				
13	1,621	52	14	46				
14	2,483	96	16	37				
15	3,267	92	58	65				
16	2,279	36	75	10				
17	1,843	28	54	16				
18	9,911	1,476	47	16				
19	48,178	2,259	894	86				
20	42,645	6,187	2,716	63				
21	8,769	1,811	122	42				
22	5,032	1,986	56	8				
23	3,880	2,460	76	14				
24	1,214	1,259	50	16				
25	770	966	23	12				
26	604	408	8	3				
27	787	855	25	7				
28	578	323	7	2				
29	925	478	2					
30	873	442	4	1				
Oct 1	642	227						
2	67	32		2				
3	53	25	3					
4	64	47						
5	78	23	4					
6	384	297	6					
7	261	346	4					
8	4,447	5,576	65					
9	2,245	2,422	18					
10	1,432	1,964	8					
Total	422,812	32,913	6,938	19,962				
1936								
June 11				59				
12				16				
13				64				
14				126				
15				147				
16				268				
17				781				
18				547				
19				352				
20				186				
21				112				
22				164				

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1936								
June 23				83				
24				71				
25				147				
26				204				
27				915				
28				830				
29				1,221				
30				1,771				
July 1				1,549				
2				1,663				
3				1,900				
4				1,874				
5				2,142				
6				2,374				
7				2,843				
8				1,976				
9				2,471				
10				2,672				
11				869				
12				1,598				
13				1,511				
14				806				
15				892				
16				1,913				
17				1,293				
18				1,368				
19				1,327				
20				1,006				
21				375				
22				561				
23				1,173				
24				1,278				
25				1,072				
26				1,110				
27				1,145				
28				1,426				
29	50			1,365				
30	125			1,247				
31	30			520				
Aug 1	86			421				
2	203		2	361				
3	243			558				
4	174			286				
5	181			397				
6	1,596	5	21	1,300				
7	5,545	1	64	1,037				
8	7,223	54	276	658				
9	8,849	43	261	1,240				
10	30,848	108	946	1,078				
11	21,095	63	636	851				
12	14,629	74	353	569				
13	15,284	32	516	533				
14	11,757	35	475	337				
15	13,130	43	267	367				
16	13,512	47	390	383				
17	21,734	42	492	42				
18	17,592	40	242	247				
19	26,047	83	271	262				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1936								
Aug 20	14,022	16	150	148				
21	24,522	48	186	130				
22	15,918	29	135	82				
23	12,408	19	69	98				
24	8,596	19	61	60				
25	9,075	30	64	56				Estimate of 60,000 fish died at falls - low water
26	12,899	24	51	40				
27	10,987	27	32	70				
28	3,966	13	39	30				
29								
30								
31								
Sep 1	1,028	4	24	6				
2	2,610	5	67	19				
3	6,775	11	73	18				
4	17,132	60	260	52				
5	40,582	63	292	29				
6	57,164	268	392	16				
7	60,421	240	366	14				
8								No count due to high water
9								
10	21,406	826	278					
11	13,369	363	203					
12	10,636	250	286					
13	4,607	175	139					
14	7,719	229	101					
15	6,431	356	116					
16	1,712	327	36					
17	491	89	9					
18	468	377	3					
19	5,847	5,099	191					
20	3,799	1,798	126					
21	3,425	2,465	119					
22	1,898	4,546	97					
23	729	2,218	729					
24								No count due to high water
25	2,096	1,859	80					
26	611	1,060	33					
27	525	2,349	39					
28	171	1,119	2					
29	240	975	2					
30	225	694	8					
Oct 1	137	354						
2	112	342						
Total	594,692	37,689	9,951	65,178				
1937								
June 3								Weir installed
4				3				
5				7				
6				18				
7				26				
8				19				
10				14				
11				6				

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1937								
June 12								
13				8				
14				5				
15				8				
16				11				
17				51				
18				43				
19				70				
20				37				
21				83				
22				104				
23				311				
24				251				
25				267				
26				330				
27				882				
28				302				
29				357				
30				658				
July 1				259				
2				278				
3				637				
4				931				
5				288				
6				206				
7				211				
8				1,506				
9				1,670				
10				1,722				
11				1,900				
12				847				
13				704				
14				738				
15				1,096				
16				1,228				
17				342				
18				573				
19				498				
20	37			1,249				
21	13			518				
22	19			436				
23	17			716				
24	42			687				
25	31			268				
26	78			287				
27	119			574				
28	217			463				
29	111			248				
30	279			1,022				
31	543			802				
Aug 1	97			416				
2	241			315				
3								No count - very high water
4								
5	2,084			941				
6	1,127		7	402				
7	1,793		45	233				
8	1,070		29	135				

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1937								
Aug 9	1,216		18	132				
10	1,136	10	16	222				
11	1,083	2	11	113				
12	1,813	4	24	176				
13	1,658	4	22	138				
14	1,763	13	19	97				
15	3,774	13	14	126				
16	6,814	15	12	141				
17	4,843	9	12	83				
18	11,162	19	34	107				
19	11,849	4	19	206				
20	21,313	26	53	450				
21	25,189	14	115	501				
22	14,199	3	92	210				
23	20,678	3	86	293				
24	20,104	7	42	240				
25	26,882	11	100	274				
26	19,548	4	46	158				
27	15,735	3	51	135				
28	9,949	8	26	55				
29	18,042	37	63	103				
30	39,751	79	83	65				
31	31,847	18	128	43				
Sep 1	26,431	15	107	47				
2	10,568	7	26	12				
3	19,400	3	50	24				
4	8,322	5	24	9				
5	11,940		32	13				
6	5,167	1	8	5				
7	2,518	2	8	4				
8	2,147	5	15	2				
9	11,920	35	60	6				
10	12,785	47	26	8				
11	39,847	2,283	426					
12	34,367	942	276	37				
13	14,868	372	87	9				
14	11,496	293	51	3				
15	6,328	97	37					
16	2,647	43	19					
17	2,329	57	21					
18	2,741	61	29					
19	3,156	76	26					
20	3,786	83	28					
21	4,168	525	31					
22	4,636	820	6					
23	4,133	535	8					
24	2,180	237	9					
25	3,294	3,229	1					
26	1,085	1,167						
27	763	948						
28	636	847						
29	347	584						200,000-300,000 fish died in creek
30								
Oct 1								
2								Weir dismantled Oct 2
Total	572,271	13,625	2,578	33,491				

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1938								
May 25				2				Weir completed May 24
26								
27								
28				8				
29				2				
30				1				
31				10				
June 1				71				
2				26				
3				4				
4				9				
5								
6				21				
7				43				
8				59				
9				51				
10				102				
11				67				
12				49				
13				38				
14				34				
15				61				
16				48				
17				33				
18				286				
19				83				
20				21				
21				9				
22				337				
23				331				
24				538				
25				412				
26				43				
27				232				
28				611				
29				228				
30				173				
July 1				154				
2				186				
3				11				
4				691				
5				760				
6				293				
7				316				
8				322				
9				463				
10				192				
11				202				
12				478				
13				156				
14				419				
15				538				
16				295				
17				107				
18				365				
19				303				
20				114				

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1938								
July 21				257				
22				268				
23				104				
24				169				
25				103				
26				166				
27				46				
28				23				
29				37				
30				89				
31				64				
Aug 1				108				
2				97				
3				235				
4				85				
5				117				
6				192				
7				110				
8				188				
9				296				
10	87		5	102				
11	20		27	113				
12	32	7	4	105				
13	16		6	84				
14	56	1	10	92				
15	162	3	59	79				
16	613	7	156	112				
17	2,157	14	130	126				
18	1,074	1	89	72				
19	1,126	8	59	118				
20	1,130	4	22	61				
21	733		26	46				
22	1,123		29	61				
23	1,529	3	62	93				
24	1,464	5	22	71				
25	2,857	4	18	76				
26	3,923	11	28	53				
27	2,656	5	11	40				
28	2,554	1	8	53				
29	3,983	7	15	39				
30	3,274	2	9	29				
31	1,313		1	21				
Sep 1	942		2	28				
2	2,125	3	5	23				
3	5,692	2	5	31				
4	5,452		2	17				
5	3,691	7	3	58				
6	3,987	7	9	24				
7	2,962	9	6	22				
8	4,630	30	23	18				
9	3,512	17	25	15				
10	7,036	71	23	12				
11	15,059	160	165	98				
12	24,345	153	172	104				
13	10,255	87	26	24				
14	2,264	54	3	9				
15	7,910	574	59	9				
16	64,119	2,856	616	65				

ADF STAT. No.
WC 39
Previous No. 60

122-20 KLAWAK CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1938								
Sep 17	29,493	588	137	8				
18	52,820	2,587	398	6				
19	24,494	4,007	316					
20	24,722	3,185	296					
21								
22								No count due to high water
23	12,100	2,818	261					
24	2,333	480	38					
25	926	431	12					
26	15,000	4,000	1,000					Weir washed out Sep 26
Total	357,751	22,209	4,398	15,368				

122-20 DOG SALMON CREEK ADF STAT. No. WC 40
55° 37.5' N. 132° 59.5' W. Previous No. 72
ADF No. 173
FWS No. 18D

WEST COAST, SHINAKU INLET, BIG SALT LAKE, 2.3 miles from head on S. shore.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep. -Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 4.2 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE Skiffs should be run from Klawak to Big Salt Lake, because of intricate channels. The lake should be entered at slack tide, which is about 2 hours after Klawak tides.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Not surveyed by air.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 20'/5".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and sand, some mud.
LOW TIDE LOCATION At lower end of flats.
HIGH TIDE LOCATION Where stream enters timber.
SCHOOLING AREAS Off mouth.
SPAWNING AREAS In the upper reaches.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile. AVERAGE WIDTH/DEPTH 8'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mostly gravel; some sand.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES None.
SCHOOLING AREAS In pools between riffles.
SPAWNING AREAS In all available riffles.
GENERAL NOTES Stream is small with many downfalls.

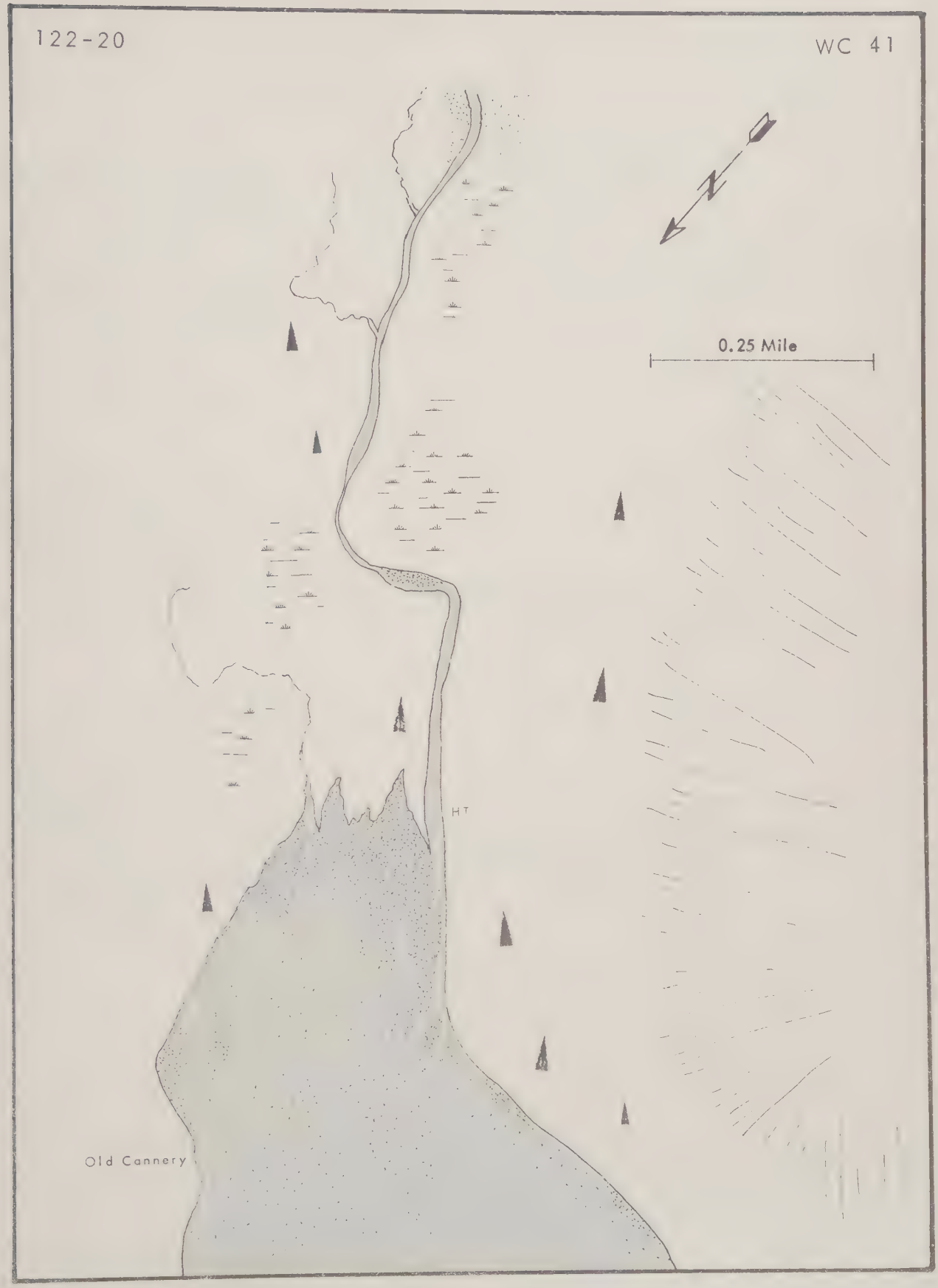
ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Datw	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1945 Oct 9		FWS	6,000		18,000			Excellent
1947 Sep 26		FWS	1,000		5,000			Fair
1948 Sep 15		FWS						Poor. Few chum, pink

122-20

WC 41



122-20
55°37.3' N. 132°56.1' W.

ADF STAT. No.
WC 41
Previous No. 51
ADF No. 177
FWS No. 18

WEST COAST, SHINAKU INLET, BIG SALT LAKE, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Aug. -Oct. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Normal-range. No observed temperatures.
VALLEY DESCRIPTION Wide glacial-cut. The valley slope S. of the stream is very steep. Banks are sparsely forested.
DRAINAGE 17.8 square miles (polar planimeter). Drains a lake 4 miles upstream, and Bear Lake. Snowfields to E. and W. contribute snowmelt.
STREAM MOUTH IDENTIFICATION The stream enters the head end of Big Salt Lake. There is a large tideflat at the mouth.
ANCHORAGE Refer to WC 40.
TRAILS AND SURVEY ROUTES No definite trails. The left bank is most easily followed. Difficult to wade.
AERIAL SURVEY NOTES Only fair aerial visibility because of dark colored water. Good during low flow.

INTERTIDAL ZONE

LENGTH 0.3 mile. AVERAGE WIDTH/DEPTH 40'-60'/6"-10".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING LOCATION
SCHOOLING AREAS The fish seem to school in Big Salt Lake.
SPAWNING AREAS Fish spawn in the upper part, the bottom composition in the lower section is largely mud.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 4 miles to lake. AVERAGE WIDTH/DEPTH 25'-40'/16"-30".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Sand, gravel, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES Three small tributaries below lake.
SCHOOLING AREAS Several large pools in the first 0.5 mile. The major schooling area is just above the intertidal zone. Also schooling in the 1.5 miles of slough above.
SPAWNING AREAS Scattered throughout the first 0.5 mile. Spawning above the slough. this area. Some spawning in inlet stream to lake.
GENERAL NOTES

ADF STAT. No.
WC 41
Previous No. 51
ADF No. 177
FWS No. 18

122-20

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective rating
1944								
Oct 27		FWS	110,000				6,500 coho	Excellent
1945								
Oct 9		FWS	350,000		6,000			Excellent
1948								
Aug 21	G 2.0	ASI	225		320			
Sep 24	G 2.5	ASI	46,000	1,950	1,300	550	2,090 coho	
Oct 5	G 3.0	ASI	3,650	650	370	300	2,500 coho	
1953								
Sep 13	G 0.5	FWS	490					Stream flooding. Visibility poor
1954								
Sep 8	A 4.0	FRI	3,000		0			
1957								
Sep 8	G 5.2	FWS	420					
1960								
Aug 22	A	ADF	0		0			200 pink at mouth
Sep 2	G 1.5	ADF	2,500		3,000			3,000 pink and chum at mouth
Sep 27	A	ADF	7,000		2,000			None at mouth. Many dead fish
1961								
Aug 10	G 0.5	ADF	225					All fresh fish
Aug 15	A	ADF	10,100					1,500 pink at mouth, fish up to lake and in inlet stream of lake
Sep 12	A	ADF	4,300	2,300				Run over
Sep 15	G 0.7	ADF	3,295	750				Many dead and spent fish
1962								
Aug 2	A	ADF	1,900					Visibility excellent
Aug 15	A	ADF	9,100					Some chum. Visibility excellent
Sep 3	A	ADF	23,300					Most in lower stream

122-20
55° 37.8' N. 132° 56.6' W.

ADF STAT. No.
WC 42
Previous No. 74
ADF No.

WEST COAST, SHINAKU INLET, BIG SALT LAKE, 1 mile N. of head.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Sep. -Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. (No observed temperatures.)
VALLEY DESCRIPTION
DRAINAGE 0.3 square mile (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH 25'-30'/15"-20".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

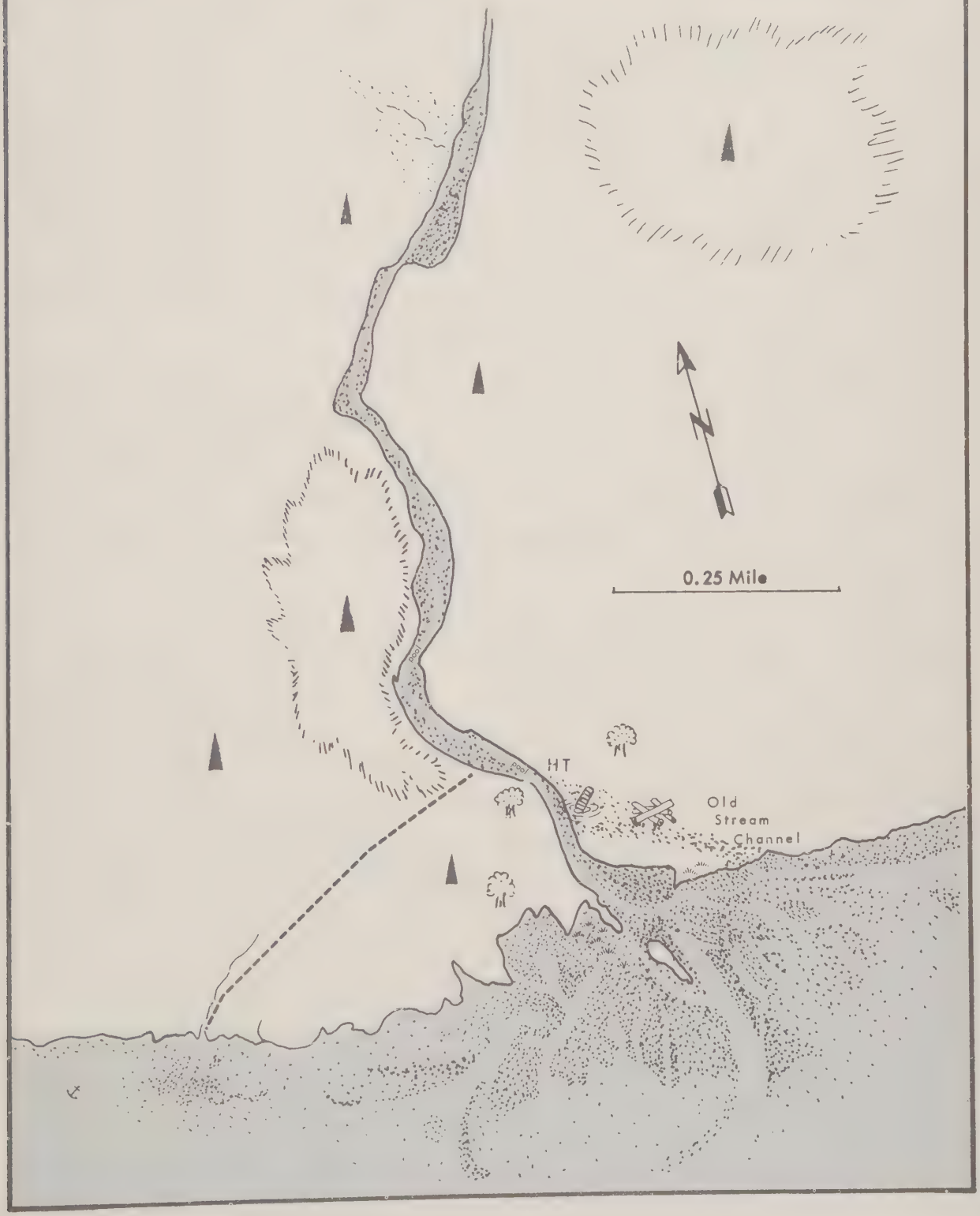
LENGTH ACCESSIBLE 3.5 miles.
AVERAGE WIDTH/DEPTH 8'-30'/6"-36".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel, sand, and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ADF STAT. No.
WC 42
Previous No. 74

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1945								
Oct 10		FWS	250,000		3,000			Excellent
1947								
Sep 25		FWS	5,000		1,000			Poor
1948								
Aug 11	G 1.0	ASI			28			
Aug 22	G 1.5	ASI	16		7,812			
Sep 12	G 1.3	ASI	128	1	480	104		
Sep 15		FWS	500		2,000			Poor
Oct 6	G 1.0	FRI		33	95	17	275 coho	
1949								
Aug 4	G 0.5	FRI	1		0			
1957								
Sep 8	G 2.5	FWS	2,000	1,250				


N
0.25 Mile
Pool
HT
Old
Stream
Channel

122-20 STEELHEAD CREEK

55° 38.0' N. 132° 57.3' W.

ADF STAT. No.
WC 43
Previous No. 74
ADF No. 176
FWS No. 18B

WEST COAST, SHINAKU INLET, BIG SALT LAKE, 1.5 miles N.W. of head.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURE Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut. A wooded valley with some open areas.
DRAINAGE 28 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream flows across a wide grassy tideflat at its mouth.
ANCHORAGE Refer to WC 40.
TRAILS AND SURVEY ROUTES A skiff can be taken as far upstream as the timber line. Travel along the streambank is difficult in the lower part because of heavy brush and numerous downfalls. Above this the stream may be waded.
AERIAL SURVEY NOTES Fair aerial visibility.

INTERTIDAL ZONE

LENGTH 0.3 mile. AVERAGE WIDTH/DEPTH 30'-40'/12"-24".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel, marble, and boulders
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS The major schooling area is a long deep pool below the first riffle at the upper end of this zone.
SPAWNING AREAS Some spawning takes place in the upper part.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 3 miles. AVERAGE WIDTH/DEPTH 25'-35'/16"-20".
GRADIENT AND VELOCITIES Slight.
BOTTOM Sand, gravel, and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Right fork has falls at three mile point.
TRIBUTARIES None.
SCHOOLING AREAS Numerous large, deep pools are found throughout. A few just above the intertidal zone are used extensively by salmon.
SPAWNING AREAS Spawning occurs in all areas which have suitable gravel. Above 1 mile there are frequent areas of bedrock which limit spawning.
GENERAL NOTES The stream forks 1.5 miles upstream.

ADF STAT. No.
WC 43
Previous No. 74
ADF No. 176
FWS No. 18B

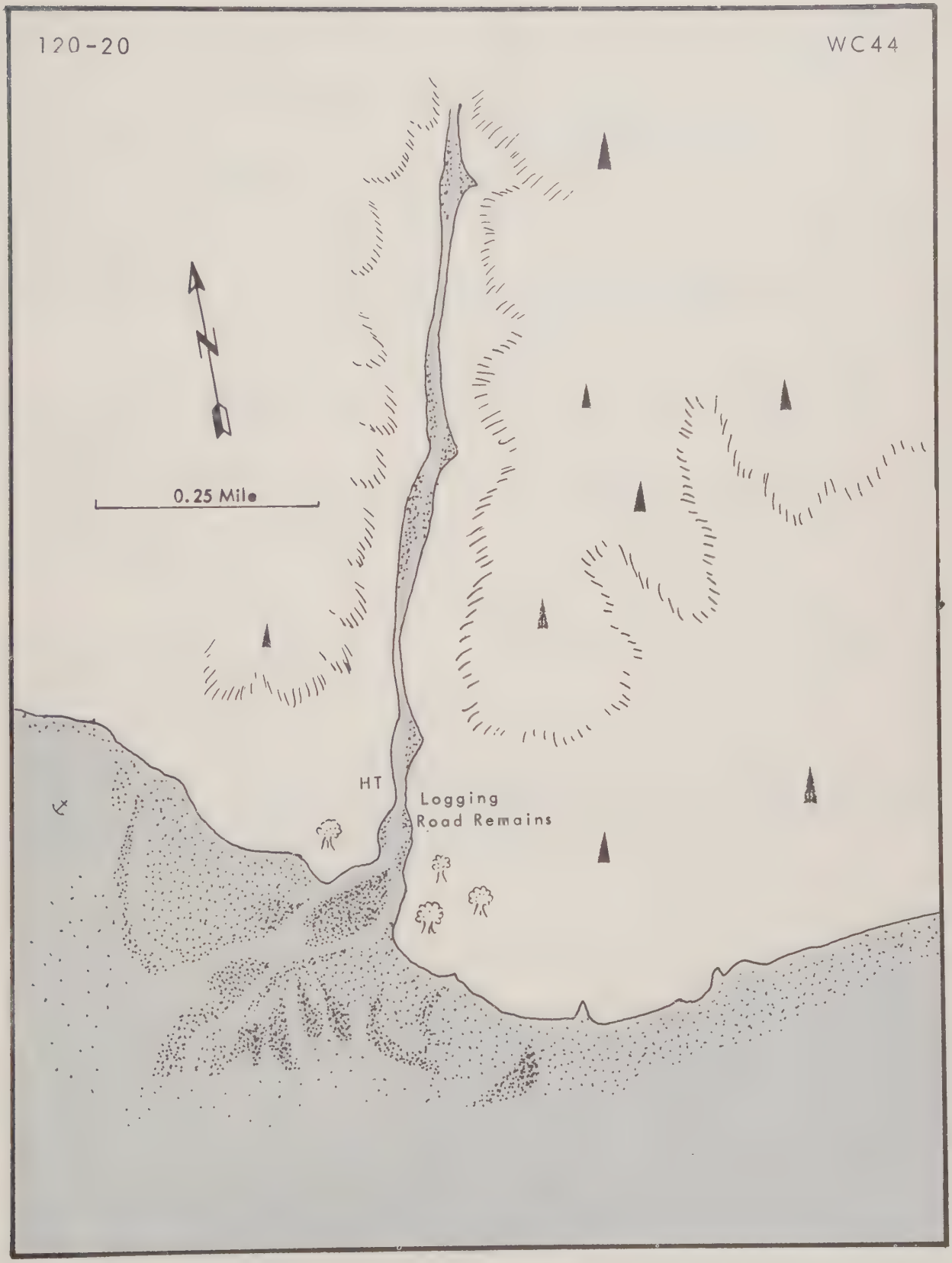
122-20

STEELHEAD CREEK

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1945								
Oct 8		FWS	60,000		400		1,000 coho	Excellent
1947								
Sep 24		FWS	100		1,000			Poor
1948								
Sep 12	G 0.8	ASI	20		180	23		
Sep 15		FWS	200		500			Poor
1949								
Aug 5	G 0.8	FRI	0		4			
1953								
Sep 13	G 0.2	FWS	8		20			
1957								
Sep 8	G 1.3	FWS	375					12 pink at mouth
1960								
July 28	A	ADF	0		0			None at mouth
Aug 22	A	ADF	200		0			Few pink and chum at mouth, visibility excellent
Sep 2	G 0.5	ADF	500		300			Water high
Sep 27	A	ADF	150		0			None at mouth. Many dead chum
1961								
Aug 9	G 1.5	ADF	4,000					1,500 pink at mouth. Holes plugged with fish
Aug 15	A	ADF	7,100					500 pink at mouth. Stream still low
Aug 18	A	ADF						1,500 pink at mouth. Stream low but fish working upstream
Sep 12	A	ADF	2,600	2,900				
1962								
Aug 2	A	ADF	700					Stream low. Visibility excellent
Aug 8	G 0.7	ADF	150					1,500 pink at mouth
Aug 15	A	ADF	600					2,000 pink and chum at mouth
Sep 3	A	ADF	4,000		500			Some dead chum. Visibility excellent


N
0.25 Mile
HT
Logging
Road Remains

122-20
55°38.2' N. 132°59.0' W.

ADF STAT. No.
WC 44
Previous No. 73
ADF No. 175
FWS No. 18A

WEST COAST, SHINAKU INLET, BIG SALT LAKE, 2 miles N.W. of head.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Aug. -Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES
VALLEY DESCRIPTION
DRAINAGE 9.4 square miles (polar planimeter). Precipitation-fed. Drains ponds. Flows through muskeg patches.
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES Fairly accessible along the left bank. Wadeable in places.
AERIAL SURVEY NOTES Aerial visibility is good when the water level is low.

INTERTIDAL ZONE

LENGTH 300 yards-400 yards.
AVERAGE WIDTH/DEPTH 15'/8"-10".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel and boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Some deep-cut holes are available for schooling, but the fish tend to school throughout.
SPAWNING AREAS Not much spawning area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2 miles.
AVERAGE WIDTH/DEPTH 10'-20'/6"-10".
GRADIENT AND VELOCITIES Slight.
BOTTOM Sand, gravel, rock, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES None.
SCHOOLING AREAS The several large holes just above the high tidemark are the best schooling areas.
SPAWNING AREAS Good spawning areas start just above high tide and extend for 1.5 miles. Above this there is a section of bedrock and then gravel areas are found again.
GENERAL NOTES An old catroad goes up the streambed for a distance of 1 mile.

122-20

ADF STAT. No. WC 44
Previous No. 73
ADF No. 175
FWS No. 18A

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1944								
Sep 28		FWS	7,500		16,500		650 coho	Fair
1945								
Oct 9		FWS	350,000		4,000			Excellent
1948								
Aug 11	G 3.0	ASI	550		12,000			
Aug 21	G 2.0	ASI	4,150		19,600			
Sep 15		FWS	2,000		15,000			Poor
Sep 23	G 2.0	ASI	2	19	8	80	7 coho	
Oct 6	G 3.0	ASI	3		125	9	256 coho	Poor
1949								
Aug 4	G 1.5	FRI	300					
1952								
Sep 19	G 0.1	FWS	500	18				
1953								
Sep 13	G 1.0	FWS	550	280	5	6		Flood stage
1954								
Sep 8	A 3.0	FRI	13,000	0				Some off the mouth
1960								
July 28	A	ADF	0		0			None at mouth
Aug 22	A	ADF	2,000		1,000			Visibility excellent
Sep 1	G 2.0	ADF	4,000		2,000			2,000 pink and chum at mouth
Sep 27	A	ADF	0		0			None at mouth
1961								
Aug 10	G 2.0	ADF	9,000					2,000 pink at mouth. Large masses in holes
Aug 15	A	ADF	23,500					4,500 pink at mouth. Fish jumping 8-10 at a time at falls four miles up
Aug 18	A	ADF						Few pink at mouth. Fish spreading up both forks, few starting to spawn
Sep 12	A	ADF	3,600	5,500				Few chum
1962								
Aug 2	A	ADF	2,900					3,000-5,000 at mouth. Fish in deep holes. Stream low
Aug 8	G 0.7	ADF	3,000					2,000 at mouth. All in deep holes, chum spawning
Aug 15	A	ADF	6,400					Few chum. Stream low
Sep 3	A	ADF	9,200		400			Few dead fish in lower stream, visibility excellent

122-20

WC 45

122-20
55°37.3' N. 133°03.3' W.

ADF STAT. No. WC 45
Previous No. 72
ADF No. 173
FWS No. 18D

WEST COAST, SHINAKU INLET, BIG SALT LAKE, N.E. corner of N. entrance.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sept.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. (No observed temperatures.)
VALLEY DESCRIPTION
DRAINAGE 0.8 square mile (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles		By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940									
Sep 28			FWS						Water too high
1941									
			FWS	30,000		8,000			
1942									
Sep 21			FWS	65,000		7,000			
1960									
Aug 22	A		ADF	0		0			Few pink and chum at mouth
Sep 6	A		ADF	1,000		1,000			Few pink and chum at mouth
Sep 27	A		ADF	0		0			None at mouth

122-20

WC 46

122-20
55° 36.4' N. 133° 08.8' W.

ADF STAT. No.
WC 46
Previous No. 61
ADF No. 172
FWS No. 19

WEST COAST, SHINAKU INLET, N. shore opposite N. tip of Wadleigh Island chain.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho, trout.
ESCAPEMENT TIMING Late. Aug.-Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. Observed temperatures: 63° F., 8/19/50; 51° F., 8/30/50; 50.5° F., 8/8/50; 50.5° F., 9/19/50; 53° F., 9/16/51; 41° F., 9/26/51; 48° F., 10/3/51; 54° F., 8/20/52; 51° F., 9/2/52; 51° F., 9/14/52; 51° F., 9/29/52; 54° F., 8/10/53; 55° F., 8/20/53; 56° F., 9/8/53; 50° F., 9/18/53.
VALLEY DESCRIPTION The stream flows toward the S. through generally flat terrain. Heavily forested near the mouth, becoming more open in its upper reaches.
DRAINAGE 27.2 square miles (polar planimeter). Precipitation fed. Some scattered muskeg areas.
STREAM MOUTH IDENTIFICATION A large tideflat, 0.7 mile long and 1 mile wide, is found at the mouth. The stream splits up as it empties into salt water.
ANCHORAGE There is much foul ground in Shinaku Inlet and the passages are good only for small craft with local knowledge. Anchor inside the N. tip of Wadleigh Island.
TRAILS AND SURVEY ROUTES Wading is difficult except at times of low water. No trails follow the E. bank.
AERIAL SURVEY NOTES An abundance of overhanging trees might impair aerial visibility on the lower part. Fair visibility upstream. Dark colored water.

INTERTIDAL ZONE

LENGTH >1 mile.
AVERAGE WIDTH/DEPTH 50'-60'/8"-10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mud and gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION At the first bedrock outcropping.
SCHOOLING AREAS Schooling takes place off the mouth, below the low tide mark.
SPAWNING AREAS Fish spawn heavily in the first 0.5 mile of this zone. This area is used more by pinks than by chums.
GENERAL NOTES Extensive logging has taken place in recent years on the W. shore at the mouth.

UPSTREAM

LENGTH ACCESSIBLE 4 miles.
AVERAGE WIDTH/DEPTH 40'/16".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Sand, gravel, and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None
TRIBUTARIES A fair sized tributary enters 1.3 miles upstream. Not known if spawning takes place in the stream.
SCHOOLING AREAS Deep pools are frequent.
SPAWNING AREAS Spawning areas are found throughout the distance surveyed.
GENERAL NOTES A large log jam is reported to be 300 yards above the intertidal zone. The stream forks 2 miles above the mouth.

122-20

ADF STAT. No. WC 46
Previous No. 61
ADF No. 172
FWS No. 19

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
Aug 20	G	FWS	60,000		9,000		2,500 coho	Excellent
1942								
Sep 23	G	FWS	120,000		18,000		3,000 coho	Excellent
1944								
Oct 18	G	FWS	8,000		6,000			Poor
1945								
Oct 10	G	FWS	800,000		8,000			Excellent
1948								
Aug 12	G 1.5	ASI						No fish in stream
Aug 22	G 2.0	ASI	1,000		1,900			Good showing at mouth
Sep 23	G 3.0	ASI	27,000	365	1,550	510	250 coho	
Oct 3	G 4.0	ASI	17,500	2,750	2,900	975	350 coho	Good
1949								
Sep 6	G 2.3	FRI	6,390	5	203			
Sep 29	G 2.8	FRI	9,500	450	2,000	417		
1950								
Aug 19	G 1.5	FRI	165	0	40	0		
Aug 30	G 1.5	FRI	460	0	40	0		400-500 off mouth
Sep 8	G 1.5	FRI	1,685	4	118	2		
Sep 19	G 1.5	FRI	1,020	20	28	0		
Oct 3	G 1.0	FRI	3,050	240	900	120		
1951								
Sep 16	G 1.5	FRI	3,000	0	1,300	15		Numerous schools off mouth
Sep 26	G 1.5	FRI	500	700	1,770	760		
Oct 3	G 1.0	FRI	3,000	200	1,600			Some dead chum. Several hundred off mouth. Peak past
1952								
Aug 10	G 1.0	FRI	0	0	75	0		Water extremely low
Aug 20	G 1.0	FRI	350	0	450	0		
Sep 2	G 1.0	FRI	1,000	0	1,000	0		Water discolored
Sep 14	G 1.0	FRI	2,700		1,000			Some dead chum, pink. None off mouth. Most spawning
Sep 20	G 0.3	FWS	530	11	50	8		
Sep 29	G 0.3	FRI	400					Few chum. Some pink. Run well over
1953								
Aug 10	G 0.8	FRI						None observed. High water
Aug 20	G 0.8	FRI	347	0	245	0		
Sep 7	G 0.8	FRI	700	0	25	0		Poor visibility. Water discolored
Sep 18	G 0.8	FRI	250	0	160			Several dead chum. Visibility near "0"
Oct 1	G 0.3	FRI	130		310			Some dead chum, pink. All spent
1954								
Sep 8	A 1.0	FRI	700	0				Few off mouth
Sep 18	G 1.0	FRI	3,000		400			Few dead chum, pink. 3,000 pink in mouth
Sep 25	A 1.0	FRI	4,000					No chum observed. Most spawning
1955								
Aug 19	A 1.0	FRI						None observed. Water colored
Aug 28	A 1.0	FRI	450					
Sep 5	A 1.0	FRI	5,000					5,000 at mouth
Sep 16	A 1.0	FRI	5,000					Some at mouth
Sep 23	A 1.0	FRI	6,500					Some dead pink. Spawning

ADF STAT. No.
WC 46
Previous No. 61

ESCAPEMENT RECORD - Continued

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1955								
Sep 28	A 1.0	FRI	10,000					Some dead pink. 4,000 spawning above marker
1956								
Aug 26	A 1.0	FRI						None observed. Water discolored
Sep 7	A 1.0	FRI	4,000					Some at mouth
Sep 17	A 1.0	FRI	25,000					Few dead chum. Some at mouth
Sep 23	A 1.0	FRI	25,000					Chum present. Some at mouth
Sep 28	A 1.0	FRI	18,000					Chum present. Some dead pink
1957								
Aug 25	A 3.0	FRI	300	0	200	0		
Sep 2	A 1.0	FRI	700	0				Some chum
Sep 7	A	FRI	200					Few dead pink
Sep 7	G 1.5	FWS	700		450			Few dead pink
Sep 22	A	FRI	700		500			Few dead chum, pink
1958								
Aug 25	A	FWS						Water dark. Fish present
Sep 7	A	FWS	500	0				Some chum. Fish dispersed
1961								
Aug 3	A	ADF	2,800					24,000 pink at mouth. Stream low
Aug 9	G 1.5	ADF	4,500					2,500 pink at mouth. Fish in deep holes
Aug 15	A	ADF	10,600					1,500 pink at mouth. 2,000 in intertidal, few fish on riffles
Sep 4	G 0.7	ADF	2,195	450	67	30		Fish present in holes but visibility poor
Sep 12	A	ADF	9,400	4,800				Some chum
Sep 27	A	ADF	6,200		4,300			Many dead. Fish in lower stream
1962								
Aug 8	G 1.0	ADF			20			200-400 pink at mouth. Spawning
Aug 15	A	ADF	1,000					Good visibility
Sep 3	A	ADF	16,000		400			In lower stream
Sep 21	G 0.5	ADF	5,300		3			1,500 dead. Water very high

122-20

WC 47

122-20
55°34.9' N. 133°16.6' W.

ADF STAT. No.
WC 47
Previous No. 38
ADF No.170
FWS No.19B

WEST COAST, SAN CHRISTOVAL CHANNEL, 1.3 miles N. of Burnt Point.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep.-Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES
VALLEY DESCRIPTION Stream-cut from 1 mile above the mouth to its headwaters. Generally flat near the mouth. Open ground is found on the ridge W. of the stream.
DRAINAGE 7.8 square miles (polar planimeter). Precipitation fed. A few small lakes near the headwater.
STREAM MOUTH IDENTIFICATION A short tideflat marks the mouth.
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH 100 yards.
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES Steep.
BOTTOM Coarse gravel and boulders
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS Offers a spawning area about 100 yards long and 20' wide.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile.
AVERAGE WIDTH/DEPTH 15'/8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

122-20

ADF STAT. No. WC 47
Previous No. 38
ADF No. 170
FWS No. 19B

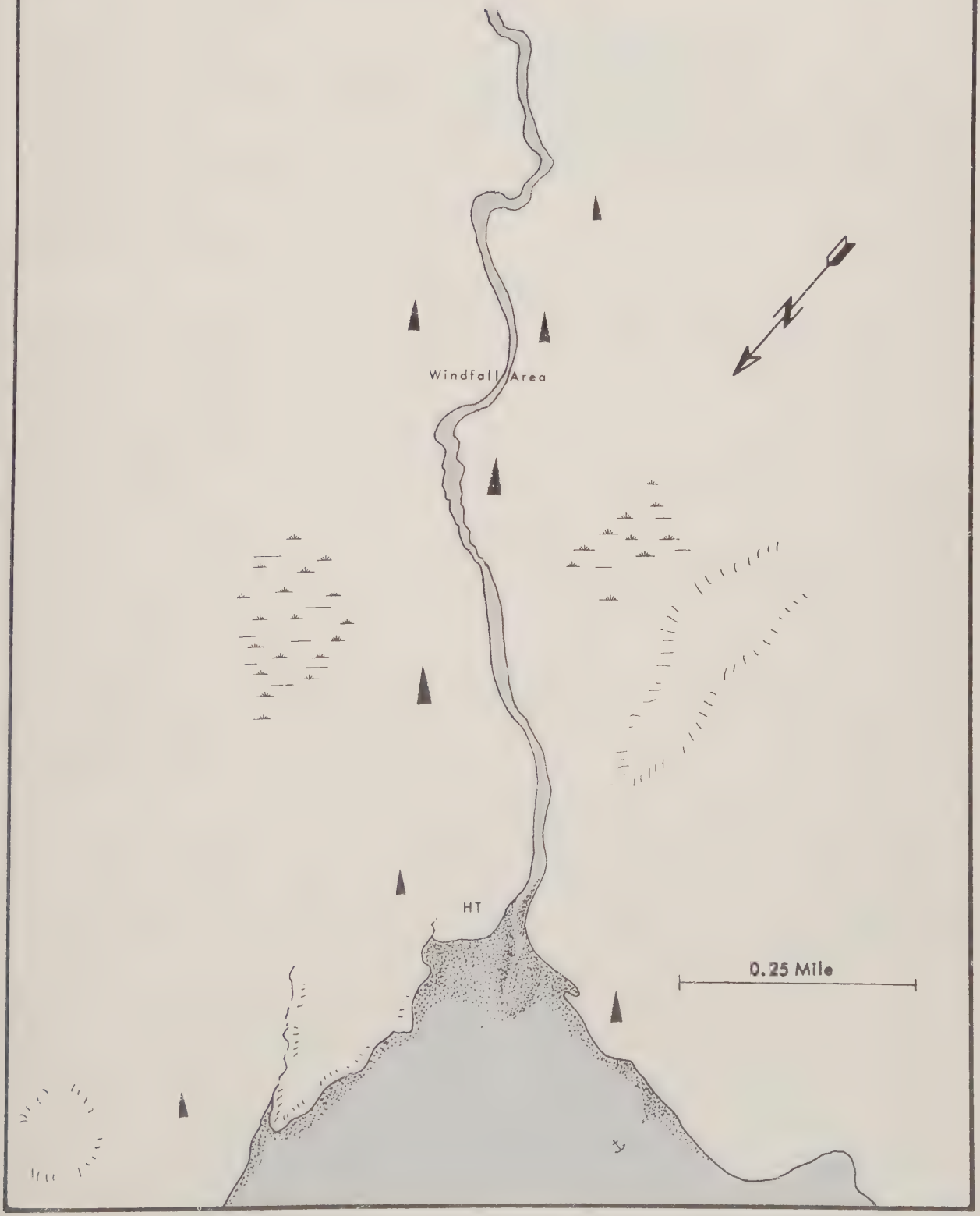
ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Oct 2		FWS	40,000		20,000			Excellent
1942								
Sep 21		FWS	80,000		12,000		2,000 coho	Excellent
1943								
Sep 16		FWS	100,000		20,000			Excellent
1944								
Oct 18		FWS	4,500		3,000			Poor
1945								
Sep 20		FWS	85,000		850			Excellent
1948								
Sep 23		FWS	7,000		500			Poor
1952								
Sep 19	G 0.2	FWS	220	1	25	0		Few jumps at mouth
1957								
Sep 22	G 2.0	FWS	1,500					Poor visibility

122-11

WC 48



122-11
55°39.9' N. 133°23.6' W.

ADF STAT. No. WC 48
Previous No. 37
ADF No. 169
FWS No. 20B

WEST COAST, TONOWEK BAY, 1.5 miles E. of Culebra Island.

MAJOR SPECIES Pink, chum. OTHER SPECIES
ESCAPEMENT TIMING Late. Sep.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Enough good gravel in lower half mile to support a fair amount of salmon.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Rolling hills with little forestation, line the shallow stream-cut valley. Trees line the banks in the lower reaches, but there are very few in the upstream area.
DRAINAGE 3.4 square miles (polar planimeter). Precipitation fed. A few small ponds drain into the stream.
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Many logs and log jams across stream up to gorge, mostly passable.
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1942 Sep 21		FWS	55,000		14,000			Excellent
1943 Oct 4		FWS	60,000		15,000			Excellent
1944 Oct 17		FWS	6,500		12,000			Fair
1945 Sep 22		FWS	60,000	7,500	1,000	2,500		Excellent
1957 Sep 10	G 2.0	FWS	140		70			None off or at mouth

122-11

WC 49

122-11
55°41' N. 133°21.3' W.

ADF STAT. No.
WC 49
Previous No. 36
ADF No. 168
FWS No. 20

WEST COAST, TONOWEK BAY, SALT LAKE BAY, S.E. head, 0.1 mile S. of cabin.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION The valley below the forks is very broad and the streambanks are forested. Above the forks the valley becomes more V-shaped.
DRAINAGE 3.3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The mouth lies at the E. end of Salt Lake Bay and flows into the S. corner of a small tideflat.
ANCHORAGE The mouth of this bay is choked by a group of wooded islands. Two channels enter the bay, the deepest one southward of the group. The N. and S. ends of the bay are shoals; good anchorage is afforded in the middle of the bay.
TRAILS AND SURVEY ROUTES Along the banks and up the middle of the stream.
AERIAL SURVEY NOTES Cannot be surveyed by air.

INTERTIDAL ZONE

LENGTH 0.1 mile. AVERAGE WIDTH/DEPTH 30'/5".
GRADIENT AND VELOCITIES Moderate.
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off the mouth and up and down the shore.
SPAWNING AREAS In the upper portion.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles. AVERAGE WIDTH/DEPTH 15'/4".
GRADIENT AND VELOCITIES
BOTTOM Gravel and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES
SCHOOLING AREAS In small pools throughout stream.
SPAWNING AREAS On riffles between pools.
GENERAL NOTES Stream has many windfalls.

122-11

ADF STAT. No. WC 49
Previous No. 36
ADF No. 168
FWS No. 20

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
Sep 10		FWS	45,000		2,400			Good
1942								
Sep 29		FWS	40,000		16,000		800 coho	Good
1943								
Sep 30		FWS	90,000		10,000		1,000 coho	Excellent
1944								
Oct 8		FWS	23,500		3,500			Fair
1945								
Sep 20		FWS	112,000		1,600			Excellent
1947								
Oct 6		FWS						Good
1953								
Sep 14	G 0.1	FWS	55		25			
1957								
Sep 10	G 1.5	FWS	25					A few at mouth
1961								
Aug 18	A	ADF						800 salmon at mouth, first showing
Aug 20	G 0.5	ADF	21					Stream very low
1962								
Sep 3	A	ADF						5,000 pink and chum at mouth, stream low

122-32
WC 50
HT
0.25 Mile

122-32
55°42.7' N. 133°19' W.

ADF STAT. No.
WC 50
Previous No. 35
ADF No. 167
FWS No. 21

WEST COAST, TONOWEK BAY, NOSSUK BAY, Head of Bay in S.E. corner.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Aug.-Oct. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. Observed temperature: 51° F., 9/11/50.
VALLEY DESCRIPTION The stream winds through a stream-cut valley flowing NE. and then SW. into Nossuk Bay.
DRAINAGE 11 square miles (polar planimeter). Precipitation fed.
STREAM MOUTH IDENTIFICATION The stream winds across a long, narrow tideflat before entering Nossuk Bay.
ANCHORAGE Nossuk Anchorage, in the northern part of the bay 0.5 mile S. of Tonowek Narrows affords excellent anchorage.
TRAILS AND SURVEY ROUTES Wadeable. Game trails follow both banks.
AERIAL SURVEY NOTES Poor for aerial surveying due to dark water.

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 40'-50'.
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Several large pools scattered throughout this zone are utilized as well as the bay off the mouth of the stream.
SPAWNING AREAS Good spawning gravel is found throughout the upper stretch.
GENERAL NOTES The stream forks in the intertidal zone. The N. fork has the largest salmon escapement and is the most important fork.

UPSTREAM

LENGTH ACCESSIBLE 3 miles. AVERAGE WIDTH/DEPTH 17'-28'/14"-22".
GRADIENT AND VELOCITES Swift.
BOTTOM Sand and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Several log jams.
TRIBUTARIES None.
SCHOOLING AREAS Small pools are frequent, with an occasional large pool.
SPAWNING AREAS Good spawning areas throughout. Some bedrock upstream.
GENERAL NOTES

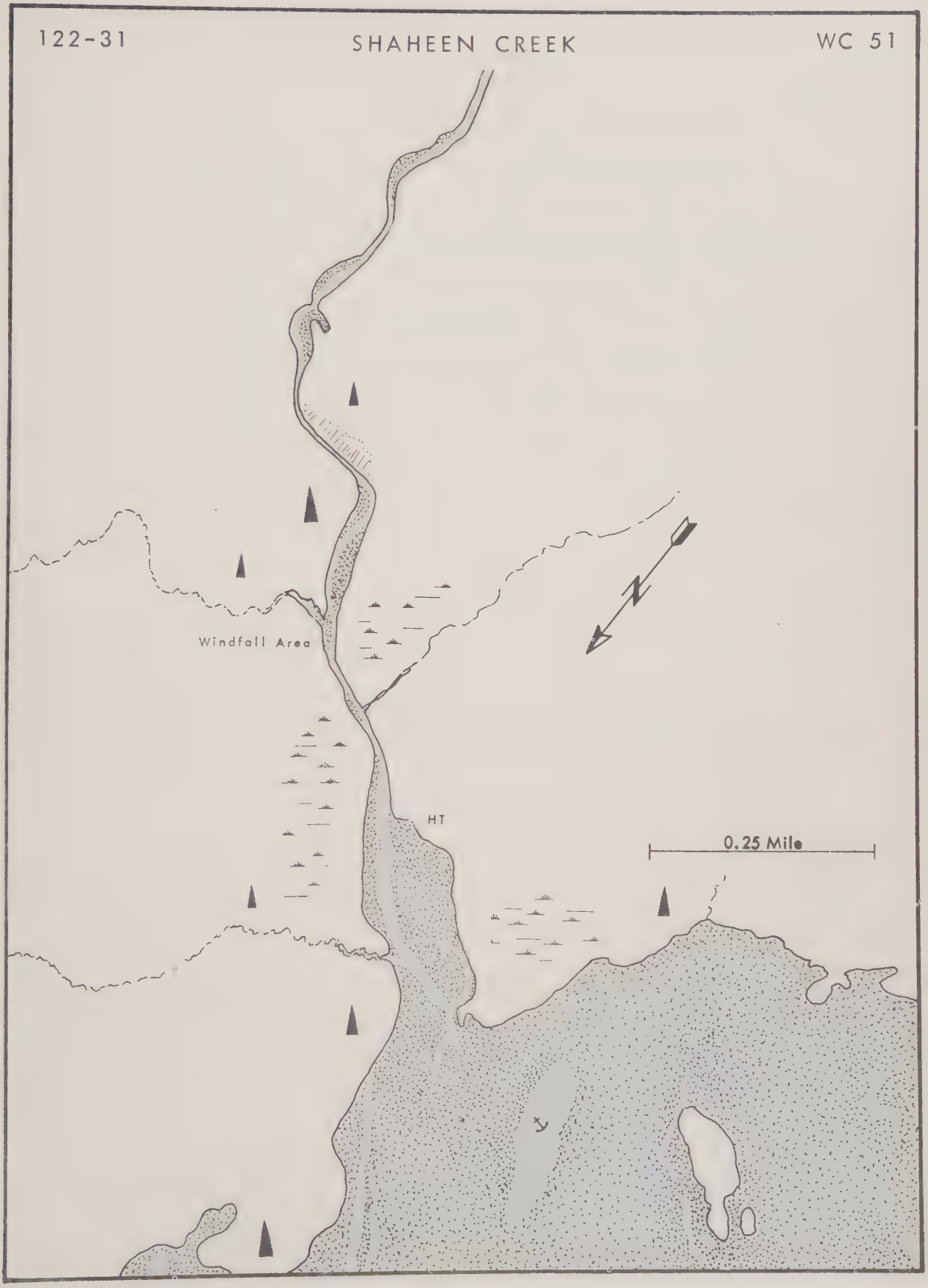
ADF STAT. No. WC 50
Previous No. 35
ADF No. 167
FWS No. 21

122-32

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1925								
Aug 22		FWS	850					Poor
1941								
Sep 16		FWS	45,000		6,000		2,000 coho	Excellent
1942								
Sep 29		FWS	60,000		12,000		1,500 coho	Excellent
1943								
Sep 30		FWS	75,000		10,000			Excellent
1944								
Sep 22		FWS	4,500		6,000			Fair
1945								
Sep 21		FWS	103,000		7,000			Excellent
1947								
Oct 5		FWS	15,000		5,000			Good
1948								
Aug 13	G 2.0	ASI			1,280			Low water
Aug 28	G 2.0	ASI	300		1,800		3 coho	
Sep 8	G 1.5	ASI	4,350		2,180		7 coho	
Oct 14	G 1.5	ASI	680	123	300	32	165 coho	Poor
1950								
Sep 11	G 0.8	FRI	210	10	17	3	5 coho	500 off mouth
1953								
Sep 15	G 0.3	FWS	55		27	1		Half chum spawned out
1957								
Sep 13	G 1.5	FWS	111					
1960								
Aug 17	A	ADF	0		0			150 chum at mouth
Aug 30	A	ADF	0		0			2,000 pink and chum at mouth
Sep 15	G 2.0	ADF	3,000		800		50 coho	4,000 pink and chum at mouth
1961								
Aug 15	A	ADF						Fish present but visibility poor
Aug 18	A	ADF						40 salmon at mouth, visibility excellent
Sep 9	A	ADF						Pink present. Fish spawning throughout stream
1962								
Sep 3	A	ADF						3,000 pink and chum at mouth, visibility excellent. Stream low
Sep 19	G 2.0	ADF	3,260		3			500 dead. Pink and chum spawning


122-31
SHAHEEN CREEK
WC 51
Windfall Area
HT
0.25 Mile

122-31
55°44.8' N. 133°14.8' W.

SHAHEEN CREEK

ADF STAT. No. WC 51
Previous No. 30
ADF No. 163
FWS No. 22

WEST COAST, TUXEKAN PASSAGE, SHAHEEN FLATS, opposite S. tip of Tuxekan Island.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho.
ESCAPEMENT TIMING Middle. July.-Aug.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. Observed temperatures: 55.5°F., 8/20/50; 48°F., 8/31/50; 46.5°F., 9/9/50; 52°F., 9/19/50; 54°F., 9/15/51; 46°F., 9/25/51; 60.5°F., 8/10/52; 51.5° F., 8/21/52; 51°F., 9/3/52; 49.5°F., 9/15/52; 50°F., 9/30/52; 54.5°F, 8/10/53; 55.5°F., 8/20/53; 51°F., 9/9/53; 50.5° F., 9/18/53.
VALLEY DESCRIPTION Stream-cut. Not heavily wooded in its lower reaches. Valley is steep-sided on the N. side near its upper end. Mountainous terrain.
DRAINAGE 27 square miles (polar planimeter). Precipitation fed. Large snowfields near the headwaters contribute small snowmelt at certain times of the year. Numerous feeder streams.
STREAM MOUTH IDENTIFICATION An extensive tideflat is found at the mouth. When the tide is out, the main channel flows in behind the outermost wooded island.
ANCHORAGE Good anchorage on the E. side of the small island and S. of the stream mouth. The channel is said to be clean.
TRAILS AND SURVEY ROUTES Boats should be left on the S. side of the creek at low tide. Bear trails follow the right bank up to forks; this bank is the most easily traveled.
AERIAL SURVEY NOTES A fair stream for aerial survey. Survey during low water because the water becomes dark during rainy periods.

INTERTIDAL ZONE

LENGTH 0.2 mile.
AVERAGE WIDTH/DEPTH 40'-50'/10"-20".
GRADIENT AND VELOCITIES Slow.
BOTTOM Gravel and boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION Just below the first tributary and the left bank.
SCHOOLING AREAS Three long, riffle-connected pools are the major schooling areas.
SPAWNING AREAS The last 300 yards offers good spawning gravel; boulders are common in some areas.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 5 miles.
AVERAGE WIDTH/DEPTH 30'-40'/10"-20".
GRADIENT AND VELOCITIES Swift.
BOTTOM Sand, gravel, boulders, and solid rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES Numerous tributaries, the largest entering from the N. 3 miles upstream. The first tributary on the right bank accessible for 0.2 mile.
SCHOOLING AREAS Pools are found throughout the distance surveyed.
SPAWNING AREAS Good gravel riffles in the first mile of stream offer good spawning facilities. Above this area of bedrock, boulders become more frequent. Tributaries offer fair spawning facilities.
GENERAL NOTES

122-31 SHAHEEN CREEK - Continued

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 29	G	FWS						None
1941								
Sep 18	G	FWS	220,000		14,000		7,000 coho	Excellent
1942								
Sep 17	G	FWS	60,000		12,000		3,000 coho	Excellent
1943								
Sep 29	G	FWS	65,000		13,000			Excellent
1944								
Oct 6	G	FWS	45,000		8,500			Fair
1945								
Sep 22	G	FWS	200,000		10,000			Excellent
1946								
Oct 14	G	FWS						Poor
1947								
Oct 26	G 1.5	FWS						Fair
1948								
Aug 13	G 2.0	ASI	100		750			Some in bay
Aug 28	G 3.0	ASI	20,500		5,200		285 coho	Good
Sep 27	G	FWS	60,000		5,000			
Sep 27	G 4.0	ASI	40,000	500	1,000	265	700 coho	
Oct 13	G 1.5	ASI	900	410	380	52	700 coho	
1949								
Aug 29	G 1.5	FRI	10,000	0	0	0		
Oct 2	G	FWS	1,650		25			
1950								
Aug 20	G 0.8	FRI	522	0	24	0		6,000 off mouth
Aug 31	G 0.8	FRI	1,470	1	8	0	5 coho	3,000-4,000 off mouth
Sep 9	G 0.8	FRI	3,670	5			6 coho	Few off mouth
Sep 19	G 0.8	FRI	4,720	14	14	1	400 coho	
Oct 4	G 0.8	FRI	1,300	155	23	15	125 coho	
1951								
Sep 15	G 0.8	FRI	6,400	0	100	4		Schools off mouth
Sep 25	G 0.8	FRI	3,700	90	200	12		None off mouth
1952								
Aug 10	G	FRI	>310		463	0	Sev. coho	
Aug 21	G 0.7	FRI	1,725	1	395			Some dead chum. Most in intertidal zone
Sep 3	G 0.7	FRI	5,910	6	460	2		Few off mouth
Sep 15	G 0.7	FRI	4,900	50	>300			Some dead chum. Some off mouth
Sep 21	G 0.3	FWS	5,000	250		3	40 coho	Few chum. Many pink fresh
Sep 30	G 0.7	FRI	690					Few chum. Few chum, many pink dead
1953								
Aug 10	G 0.7	FRI	1,125	0	430	0		
Aug 20	G 0.7	FRI	4,520	0	0	0		
Sep 9	G 0.3	FRI	300	0	0	0		Water at low flood stage. Extremely poor visibility. Estimate 1,000-2,000 pink
Sep 18	G 0.7	FRI	550	20	1	0		Visibility extremely poor
1954								
Sep 8	A 0.7	FRI	10,000					Several thousand at mouth
Sep 19	G 0.7	FRI	9,700	>350			Coho present	Few chum. 5,000 pink at mouth
1955								
Aug 19	A 0.7	FRI	1,000					>30,000 pink at mouth
Aug 28	A 0.7	FRI	15,000					20,000 at mouth. >100,000 off mouth

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1955								
Sep 5	A 0.7	FRI	>20,000					Many thousands near mouth
Sep 16	A 0.7	FRI	15,000					20,000-30,000 in bay
Sep 23	A 0.7	FRI	20,000					Many dead pink. 20,000 above marker 4 miles. Thousands dead
1956								
Aug 26	A 0.7	FRI	>2,000					>50,000 off mouth. >10,000 at mouth
Sep 7	A 0.7	FRI	25,000					>50,000 at and near mouth
Sep 17	A 0.7	FRI	70,000					>20,000 at mouth. More in bay
Sep 23	A 0.7	FRI	>20,000					Few at mouth. Thousands above marker
Sep 28	A 4.7	FRI	15,000					Chum present. Many dead pink. Few at mouth. 5,000-10,000 to marker
1957								
Aug 25	A 0.7	FRI						Few pink. >10,000 chum at mouth
Sep 2	A 0.7	FRI	>500	0				None observed at or off mouth
Sep 9	A 0.7	FRI	200	0				No run
Sep 12	G 3.0	FWS	885		2,000			
Sep 22	A 3.7	FRI	1,500					Few chum
1958								
Aug 25	A 0.7	FWS						None observed. Water dark
Sep 7	A 0.7	FWS						Fish present. Water very dark
Season		FWS	13,000		11,000		100 coho	
1959								
July 31	A	FWS	600		0			
Aug 12	A	ADF	15,000		0			
Aug 17	A	ADF	15,000		1,700			
1960								
July 1	A	ADF	0		0			None at mouth
July 8	G	ADF	0		0			1,000 chum at mouth
July 10	G	ADF	0		0			2,500 chum at mouth
July 22	G	ADF	0		0			8,000 chum at mouth
July 28	A	ADF	0		0			10,000 chum at mouth
Aug 3	A	ADF	0		500			10,000 pink and chum at mouth
Aug 17	A	ADF	100		7,000			Visibility good
Aug 22	A	ADF	1,000		8,000			Water low in stream
Aug 30	A	ADF	2,000		10,000			Few pink and chum at mouth
Sep 14	A	ADF	4,000		3,000			1,500 pink at mouth
Sep 27	A	ADF	1,000		0			None at mouth
1961								
Aug 3	A	ADF	1,700					16,000 pink and chum at mouth, stream low
Aug 15	A	ADF	9,600					20,000 pink and chum at mouth, visibility excellent
Sep 12	A	ADF	5,000	4,500				1,200 pink and chum at mouth
Sep 27	A	ADF						2,400 fish in stream. 3,300 dead pink and chum
1962								
Aug 2	A	ADF			700			1,000-2,000 at mouth. First showing, mostly in intertidal zone
Aug 3	G 1.0	ADF			100			Stream very low. Few pink
Sep 3	A	ADF	5,900		300			7,000 pink and chum at mouth. Dead chum 7 miles up. Most fish in lower stream.

HT
0.25 Mile
Old
Weir
Pool
Pool

122-31 STANEY CREEK ADF STAT. No. WC 52
55°48.9' N. 133°08.5' W. Previous No. 29
ADF No. 162
WEST COAST, TUXEKAN PASSAGE, 2 miles E. of Staney Island. FWS No. 22C

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Aug.-Oct. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. Observed temperatures: 69°F., 8/20/50; 52°F., 8/31/50; 49.5°F., 9/9/50; 53°F., 9/20/50; 58°F., 8/13/51; 57°F., 8/22/51; 52°F., 9/9/51; 45°F., 9/25/51; 56.5°F., 8/17/52; 53.5°F., 8/27/52; 47°F., 9/8/52; 51°F., 9/19/52; 57.5°F., 8/17/53; 55°F., 8/25/53; 53°F. 9/11/53; 51°F., 9/20/53; 45°F., 9/30/53.
VALLEY DESCRIPTION A broad valley with dense forestation along the stream.
DRAINAGE 66 square miles (polar planimeter). Precipitation fed.
STREAM IDENTIFICATION
ANCHORAGE Anchor off campsite on N. side of Staney Island.
TRAILS AND SURVEY ROUTES Go into the stream on a rising tide and come out on a near flood tide. A trail follows the right bank to the weir site.
AERIAL SURVEY NOTES Good aerial visibility at low water periods. The water becomes coffee colored during times of heavy precipitation

INTERTIDAL ZONE

LENGTH 2 miles. AVERAGE WIDTH/DEPTH 150'-200'/20"-30".
GRADIENT AND VELOCITIES Slight.
BOTTOM Gravel and large boulders with mud in lower 0.5 mile.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Numerous deep pools.
SPAWNING AREAS Some sections of streambed at the upper end of this zone are suitable for spawning.
GENERAL NOTES The intertidal zone is long and meandering.

UPSTREAM

LENGTH ACCESSIBLE 9 miles. AVERAGE WIDTH/DEPTH 60'-100'/20"-30".
GRADIENT AND VELOCITIES Very slight.
BOTTOM Sand, gravel, and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES Numerous. The first tributary above the high tide mark has good spawning facilities.
SCHOOLING AREAS Several pools immediately above the intertidal zone and extending for a short distance upstream. Few pools in the upstream area.
SPAWNING AREAS Almost continuous riffles in the lower mile. Areas of bedrock begin at this point. Major spawning areas are reported to be above the forks.
GENERAL NOTES

122-31 STANEY CREEK - Continued

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1929								
Oct 5	Weir	USBF	107,025		32,755		10,990 coho	Final total. Weir installed July 14
1930								
Sep 30	Weir	USBF	366,107		42,967		20,398 coho	Final total. Weir installed July 7
1931								
Sep 19	Weir	USBF	17,667		8,322		2,046 coho	Final total. Weir installed July 10
1932								
Sep 3	Weir	USBF	102,463		25,622		2,970 coho	Final total. Weir installed July 4
1937								
		FWS	3,600					Poor
1940								
Sep 10		FWS	195,000		30,000			Good
1941								
		FWS	110,000		8,000		10,000 coho	Good
1942								
Sep 17		FWS	20,000		4,000		8,000 coho	Fair
1943								
Sep 23		FWS	30,000		5,000		10,000 coho	Fair
1944								
Oct 6		FWS	31,000		23,000		6,500 coho	Fair
1945								
Sep 22		FWS	200,000		15,000		3,000 coho	Good
1946								
Oct 14		FWS	150,000		25,000			Fair
1947								
Oct 3	G 1.0	FWS						Fair. Water too high
1948								
Aug 14	G 5.0	FWS	275		2,700			30,000 in deep pools in intertidal
Aug 27	G 7.0	ASI	700		27,000			Good. Fish all the way
Sep 17	G 4.0	ASI	110,000	2,000	1,000	2,100	700 coho	All dead spent
Sep 28	G 6.5	ASI	212,000	16,500	8,650	3,000		Excellent
1949								
July 26		FWS	1,000					
Aug 6	G 3.5	FRI	1,300		300			
Aug 29	G 2.3	FRI	15,000	35	750			
Sep 7	G 2.0	FWS	40,000					
Sep 14	G 2.3	FRI	75,000				100 coho	
Sep 28	G 6.0	FRI	6,490	718				
1950								
Aug 20	G 0.8	FRI	2,000	2	3,600	7		10,000 off mouth
Aug 31	G 0.8	FRI	9,400	0	950	510		6,000 off mouth
Sep 9	G 0.8	FRI	15,650	7	2,170	770		
Sep 20	G 0.8	FRI	8,620	95	40	550	160 coho	
Oct 4	G 0.8	FRI	8,500	1,600	5	50		
1951								
Aug 13	G 0.8	FRI	1,250	0	2,500	0	Coho present	10,000 chum at mouth
Aug 22	G 0.8	FRI	2,500	0	8,000	100		9,000 off mouth
Sep 10	G 0.8	FRI	45,000		600	16		Some dead pink. Water murky
Sep 25	G 0.8	FRI						Poor visibility, estimate impossible
1952								
Aug 17	G 1.5	FRI	1,501	0	10,000	1,920		Dead by bear kills and fungus
Aug 27	G 1.5	FRI	12,100		700		1,000 coho	Several thousand chum, some dead pink
Sep 8	G 1.5	FRI	7,500		950		600 coho	Many chum, some pink dead.

122-31

STANEY CREEK - Continued

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1952								
Sep 19	G 1.5	FRI	4,020	>400	1,250	>200	700 coho	Coho off mouth. All spawning
Sep 21	G 0.7	FWS						No count. Poor visibility
1953								
Aug 17	G 1.5	FRI	625	0	350	0	100 coho	Run may have gone upstream
Aug 25	G 1.5	FRI	650	0	120	8	95 coho	
Sep 11	G 0.3	FRI						Stream in flood, no visibility
Sep 20	G 1.5	FRI	600	200				Few chum. Poor visibility
Sep 30	G 1.5	FRI	100		0		300 coho	Some dead pink. None at mouth
1954								
Aug 24	A 1.5	FRI						10,000-20,000 fish. Many dead chum
Sep 8	A 1.5	FRI						30,000 coho, pink. Visibility poor
Sep 19	G 1.5	FRI	9,500	1,000				Few live, dead chum
1955								
Aug 19	A 1.5	FRI					Some coho	Some chum, pink
Aug 28	A 1.5	FRI	>9,000				Coho present	Chum present
Sep 5	A 1.5	FRI	>20,000					Many in pools. Count impossible
Sep 16	A 1.5	FRI	12,000					15,000 fish 4 miles above marker
1956								
Aug 26	A 1.5	FRI	>15,000					Chum present
Sep 7	A 1.5	FRI	>45,000					15,000 counted above high tide
Sep 17	A 1.5	FRI	>35,000	200				10,000-20,000 at mouth
1957								
Aug 25	A 3.0	FRI					Some coho	
Sep 2	A 0.8	FRI						Few chum, pink. Jumps off mouth
Sep 9	A 0.8	FRI	200				Some coho	Some chum
Sep 14	A 5.0	FWS	500		500	500		Many at, off mouth
Sep 22	A 2.0	FRI			2,000		Coho present	Few pink. Some chum, few pink dead
1958								
Aug 25	A	FWS						Fish present. Water dark, visibility poor
Sep 4		FWS	6,500		45,000		300 coho	
Sep 7	A	FWS	3,500	0				Many in dark pools. Water too dark
1960								
July 1	A	ADF	0		0			None at mouth
July 12	G	ADF	0		0			1,000 chum off mouth
July 22	A	ADF	0		500			500 chum at mouth
July 28	A	ADF	0		1,000			None at mouth. Visibility excellent
Aug 3	A	ADF	0		2,000			Few chum at mouth
Aug 17	A	ADF	0		10,000			Few pink and chum at mouth
Aug 22	A	ADF	1,000		11,000			Some pink and chum at mouth
Aug 30	A	ADF	4,000		12,000			Few pink, chum, and coho at mouth
Sep 14	A	ADF	3,000		2,000			2,000 pink, chum, and coho at mouth
Sep 27	A	ADF	6,000		0			None at mouth. Many dead fish
1961								
Aug 3	A	ADF	13,500					Stream low. Visibility excellent
Aug 15	A	ADF	10,400					No estimate intertidal - dark water
Sep 12	A	ADF	4,300	3,200				Dead fish all down stream
Sep 27	A	ADF			1,600	900		Fish all in lower stream
1962								
Aug 2	A	ADF	8,800					3 to 4 jumping fish, mostly chum
Aug 3	G 3.0	ADF	500		2,000			Thousands of Dolly Varden, fish present in lower pools
Aug 18	G 3.5	ADF						3,000-4,000 in intertidal zone. Few chum
Sep 3	A	ADF	12,400		600	400		5,000-7,000 at mouth. Dead 9 miles up

ADF STAT. No.
WC 52
Previous No. 29

122-31 STANEY CREEK

U.S. Bureau of Fisheries Weir Counts

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1929								
July 15		1						
16	102	52						
17	115	43						
18	56	31						
19	11	9						
20	5	1						
21	10	4						
22	2	3						
23	208	49						
24	1,020	110						
25	5,290	2,070						
26	1,112	482						
27	1,010	202						
28	6,477	1,501						
29	5,380	1,207						
30	1,625	423						
31	3,227	454						
Aug 1	631	16						
2	597	8						
3	473							
4	283	4						
5	333	9						
6	583	8						
7	1,990	124						
8	341	99						
9	795	170						
10	1,211	482						
11	10,842	1,973						
12	26,137	7,499						
13	1,670	484						
14	1,270	486						
15	690	83						
16	353	72						
17	3,098	657						
18	225	41						
19	375	46						
20	1,598	331						
21	2,457	672						
22	14,872	3,647						
23	1,230	248	2					
24	361	24	5					
25	724	736	73					
26	274	118	35					
27	100	95	35					
28	172	165	46					
29	577	398	84					
30	226	125	115					
31		80	78					
Sep 1	153	95	48					
2	393	492	206					
3	239	341	115					
4	273	594	237					
5	292	162	87					
6	708	232						
7	124	411	77					

122-31 STANEY CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1929								
Sep 8	46	278	42					
9	39	159	30					
10	53	226	23					
11	51	421	35					
12	86	229	30					
13	245	415	52					
14	411	727	120					
15	196	181	149					
16	273	455	287					
17	544	331	480					
18	626	245	350					
19	1,532	762	8,888					
20	197	151	1,427					
21	85	83	479					
22	43	24	449					
23	28	16	172					
24	20	2	14					
25	12	1	8					
26	13	5	21					
27	8	5	22					
28	15	7	28					
29	15	8	29					
30	13	13	61					
Oct 1	23	6	34					
2	67	60	534					
3	37	39	486					
Total	107,025	32,755	10,990					
1930								
July 7		2						
14		2						
19		6						
20		256						
21		70						
22	2	18						
23	46	728						
24	43	301						
25	31	280						
26	334	334						
27	203	84						
28	136	8						
29	448	172						
30	610	145						
31	203	50						
Aug 1	4	1						
2	40	29						
3	25	7						
4	225	45						
5	681	44						
6	265	13						
7	298	83						
8	1,607	544						
9	6,658	614						
10	10,690	404	67					
11	17,463	762	149					
12	22,582	1,891	358					

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1930								
Aug 13	36,633	22,272	283					
14	14,206	4,106	307					
15	4,679	45	108					
16	9,163	11	118					
17	4,743	3	66					
18	4,316	2	45					
19	3,003	7	42					
20	7,776	18	121					
21	29,213	93	220					
22	28,969	703	425					
23	11,184	283	296					
24	5,021	294	394					
25	4,021	236	115					
26	1,477	80	34					
27								
28								
29								
30								
31	3,415	1,295	311					
Sep 1	3,351	61	103					
2	1,487	13	24					
3								
4	1,460	229	85					
5								
6	2,630	278	211					
7	3,479	173	399					
8	2,316	234	282					
9	1,972	167	355					
10								
11	2,765	112	326					
12	2,338	50	505					
13	2,749	73	962					
14	65,310	5,010	7,440					
15	39,321	210	3,301					
16								
17								
18								
19								
20								
21	401	3	519					
22	398		475					
23	787	8	402					
24	392	1	211					
25	1,421	2	291					
26	1,620	2	356					
27	888		473					
28	437		159					
29	172		60					
Total	366,107	42,967	20,398					
1931								
July 10		5	1					
13	5	16						
14		8						
15		8						

122-31 STANEY CREEK - Continued

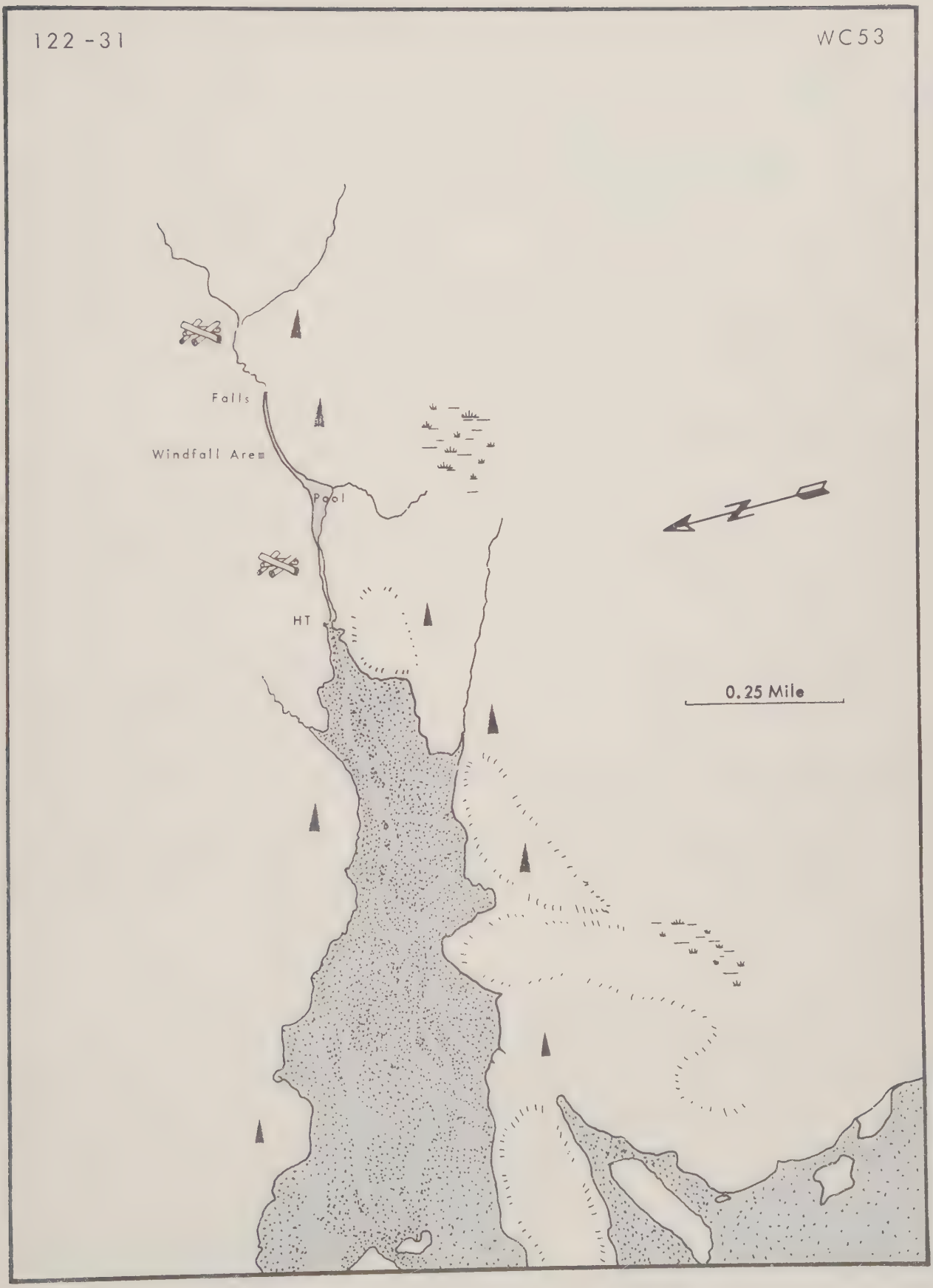
Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
July 16		2						
17								
18								
19	2	14						
20		63						
21		21						
22	2	57						
23	6	36	2					
24		25						
25		20	16					
26		7						
27	3	26	6					
28	2	8	1					
29	4	4	3					
30	32	36	6					
31	15	43	7					
Aug 1	69	30	1					
2	250	37	6					
3	1,219	540						
4	1,729	620						
5	33	13						
6	4	2						
7	123	33						
8	203	162	1					
9	38	43						
1 10	152	165	4					
11	337	359	9					
12	4,932	1,352	13					
13	1,574	140	5					
14	807	101	14					
15	554	345	8					
16	141	112	1					
17	142	113						
18	257	198	1					
19	352	259	3					
20	112	63						
21								
22	19	236	5					
23	1,958	2,628						
24	2,002	200	486					
25	59	5	24					
26	28	15	31					
27	142	34	152					
28	56	21	77					
29	13	2	16					
30	50		100					
31	4	2						
Sep 1	24	6	31					
2	25	10	112					
3	5	10	103					
4	10	6	25					
5	5	4	8					
6	83	15	468					
7	4	2	6					
8	2							
9	39	18	69					

122-31 STANEY CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1931								
Sep 10	11	2	22					
11	4		10					
12	20	15	50					
13	9		29					
14		5	21					
15			21					
16			58					
17			14					
18								
Total	17,667	8,322	2,046					
1932								
July 4								
5		9						
6		8						
7								
8		12						
9		21						
10		23						
11		269						
12								
13		321						
14		56						
15		25						
16								
17								
18	4	18						
19		350						
20	29	680						
21	148	2,478						
22	75	1,988						
23	89	1,673	3					
24	68	263						
25	6	20						
26	1							
27	254	59						
28	287	62	2					
29	314	44	1					
30	572	69	2					
31	4,196	6,018	18					
Aug 1	1,703	1,010	2					
2	2,872	2,325	2					
3	2,373	727						
4	3,742	577	4					
5	3,244	247	40					
6	5,608	259	87					
7	5,126	257	12					
8	3,007	121	15					
9	752	10	7					
10	738	5	3					
11	1,173	22	22					
12	3,968	56	84					
13	5,572	55	85					
14	5,089	32	93					
15	2,733	84	90					
16	636	57	30					

122-31 STANEY CREEK - Continued

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1932								
Aug 17	459	78	24					
18	1,122	307	49					
19	1,955	348	71					
20	2,747	737	126					
21	195	187	15					
22	45	122	7					
23	109	313	11					
24	336	452	12					
25								
26	526	306	74					
27	921	821	43					
28	31,251	1,260	1,260					
29	5,021	210	280					
30	2,095	91	201					
31	1,302	80	195					
Total	102,463	25,622	2,970					


Falls
Windfall Area
Pool
HT
0.25 Mile

122-31
55°52.8'N. 133°07.8' W.

ADF STAT. No. WC 53
Previous No. 28
ADF No. 161B
FWS No. 23B

WEST COAST, TUXEKAN PASSAGE, NAUKATI BAY, Head of E. arm.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Aug.-Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. Observed temperature: 58.5° F., 9/3/49.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 5.6 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION A 0.5 mile tideflat is found at mouth.
ANCHORAGE Refer to WC 51.
TRAILS AND SURVEY ROUTES No trails. Travel is very difficult in the first 0.5 mile because of the many windfalls. Above this, travel is less difficult.
AERIAL SURVEY NOTES Poor aerial visibility due to overhanging brush and trees and the dark water.

INTERTIDAL ZONE

LENGTH 0.5 mile.
AVERAGE WIDTH/DEPTH 35'-45'/6"-10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS The bight off the mouth is the major schooling area.
SPAWNING AREAS Fair spawning throughout.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles.
AVERAGE WIDTH/DEPTH 15'-20'/10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Fish might have trouble ascending during low water. A small falls three-fourths mile upstream is no problem.
TRIBUTARIES None.
SCHOOLING AREAS Pools are scattered throughout the first mile.
SPAWNING AREAS Good spawning areas were found throughout the entire distance surveyed.
GENERAL NOTES A jungle of windfalls. Upper part meanders a good deal through open meadows.

122-31

ADF STAT. No. WC 53
Previous No. 28
ADF No. 161B
FWS No. 23B

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
Sep 11		FWS	6,000		200		300 coho	Good
1942								
Sep 16		FWS	40,000		18,000		1,500	Excellent
1943								
Sep 28		FWS	5,000					Good
1944								
Oct 17		FWS	1,000					Fair
1945								
Sep 22		FWS	35,000		1,600			Excellent
1946								
Oct 14		FWS	10,000					Poor
1947								
Oct 2		FWS						Water too high
1948								
Sep 26		FWS						Fair. Chum, pink fair
1949								
Aug 9	G 1.0	FRI						No fish seen. 3 or 4 jumps in lake
Sep 3	G 1.0	FRI	7,190	1	200			
Sep 26	G 1.0	FRI	10,000	657	3,000	571		
1960								
Aug 17	A	ADF	0		0			None at mouth
Aug 22	A	ADF	0		0			Good showing off mouth
Aug 30	A	ADF	0		0			Visibility poor
Sep 2	G 1.0	ADF	500		500			3,000 at mouth
Sep 14	G 2.0	ADF	9,500		1,000			3,000 pink at mouth. No dead fish
1961								
Aug 15	A	ADF						100 pink at mouth
Aug 22	G 0.5	ADF	19					900 pink and 100 chum at mouth, stream low, many bear kills
Sep 14	A	ADF	1,600					
Sep 27	A	ADF	1,900	400	1,700	200		Visibility good
1962								
Sep 3	A	ADF						Few chum. Many off mouth

122-31

NAUKATI CREEK

WC54

ADF STAT. No.
WC 54
Previous No. 27
ADF No. 161A

122-31 NAUKATI CREEK
55°53.3' N. 133°09' W.

WEST COAST, TUXEKAN PASSAGE, NAUKATI BAY, N.E. head of Bay.

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION The valley contains Naukati Creek and several small lakes which the creek drains. Rolling hills are found along both sides of the stream
DRAINAGE 11.7 square miles (polar planimeter). Numerous lakes and ponds are drained by this stream.
STREAM MOUTH IDENTIFICATION A small falls can be seen from the bay.
ANCHORAGE Refer to WC 51
TRAILS AND SURVEY ROUTES No trails. Difficult to ascend, especially the lower quarter mile. Above this, the banks may be followed.
AERIAL SURVEY NOTES Aerial visibility is poor because of the dark colored water and heavy overstory.

INTERTIDAL ZONE

LENGTH 100 yards. AVERAGE WIDTH/DEPTH 30'/6"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Small gravel and large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS A large hole at the lower end of the intertidal zone.
SPAWNING AREAS Some spawning takes place in this zone.
GENERAL NOTES

UPSTREAM

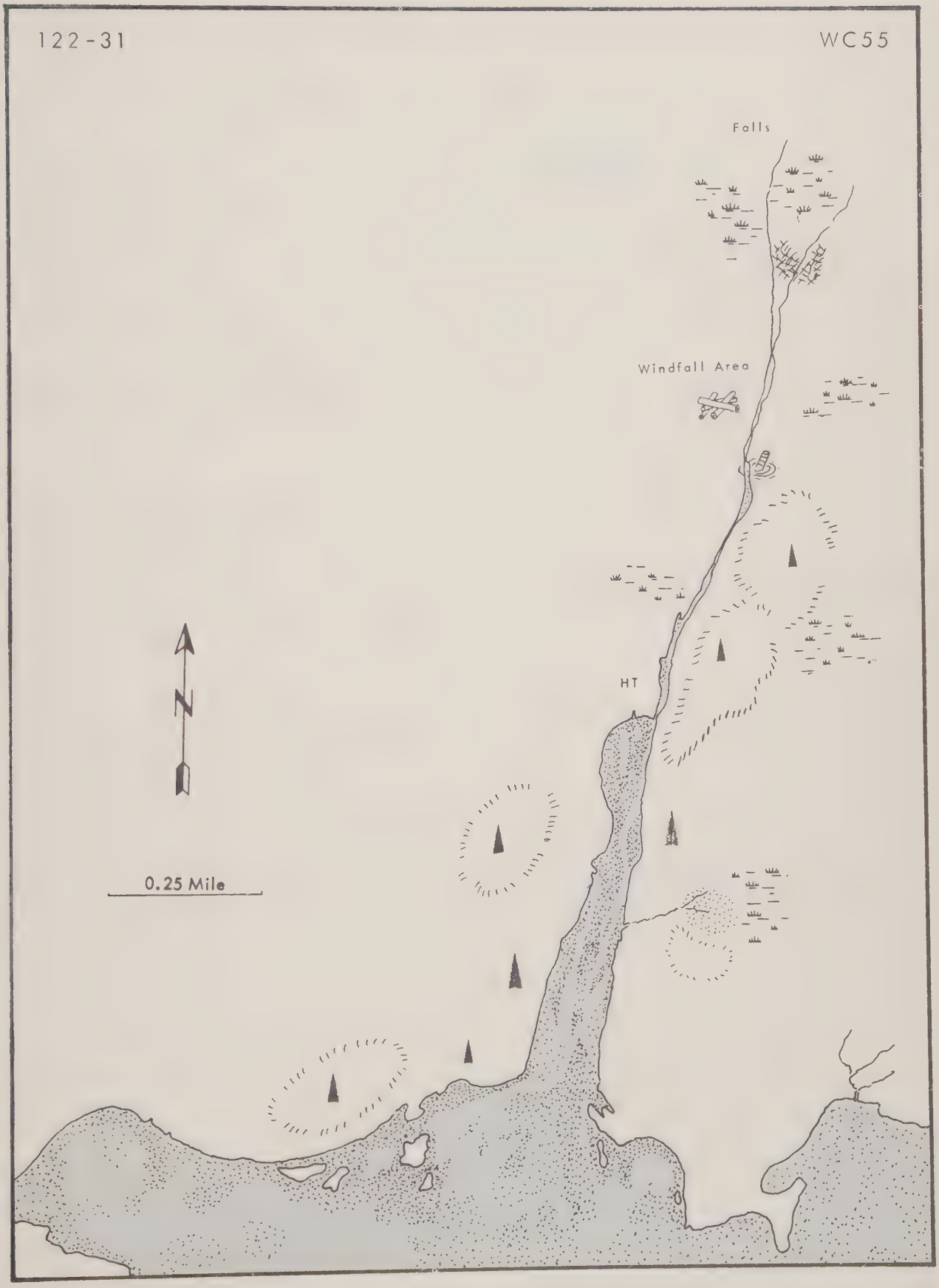
LENGTH ACCESSIBLE 1.2 miles to pond. AVERAGE WIDTH/DEPTH 50'/25".
GRADIENT AND VELOCITIES Steep.
BOTTOM Bedrock, boulders, and small rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two falls about 6' high at the head of the intertidal zone do not block fish passage.
TRIBUTARIES None reported.
SCHOOLING AREAS Large holes throughout the distance surveyed are utilized by schooling salmon.
SPAWNING AREAS The stream has few good spawning areas.
GENERAL NOTES Stream is accessible above the pond through the second lake.

ADF STAT. No.
WC 54
Previous No. 27

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
		FWS	3,200		300			
1942								
Sep 16		FWS	26,000		12,000		2,000 coho	Excellent
1943								
Sep 28		FWS	30,000		8,000		2,000 coho	Excellent
1944								
Oct 17		FWS	8,000		1,500			Fair
1945								
Sep 22		FWS	45,000		5,000			Excellent
1946								
Oct 14		FWS	25,000		2,000			Good
1947								
Oct 2		FWS	1,000		500			Poor
1948								
Sep 26		FWS						Good. Chum, pink good
1957								
Sep 16	G 1.0	FWS	600		150			Few jumps off mouth
1960								
Aug 17	A	ADF	0		0			None at mouth
Aug 22	A	ADF	0		0			5,000 pink and chum at mouth
Sep 14	G 1.5	ADF	2,500		500			3,500 pink at mouth. Few dead chum
1961								
Aug 15	A	ADF						600 pink at mouth
Aug 18	A	ADF						3,200 pink at mouth, small schools in bay
Aug 22	G 0.5	ADF	10					3,000 pink and chum at mouth, few coho
Sep 12	A	ADF	2,000					and red off mouth
Sep 27	A	ADF			700	800		Visibility fair
1962								
Sep 3	A	ADF						Few pink. Many salmon at mouth, stream low


Falls
Windfall Area
HT
N
0.25 Mile

122-31
55°53.7' N. 133°09.2' W.

ADF STAT. No.
WC 55
Previous No. 26
ADF No. 161
FWS No. 23

WEST COAST, TUXEKAN PASSAGE, NAUKATI BAY, Head of northernmost arm.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Sep.-Oct.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Normal range. Observed temperature: 48° F., 9/27/49.
VALLEY DESCRIPTION Stream-cut. The area through which this stream flows is nearly flat, with a few rolling hills.
DRAINAGE 5.5 square miles (polar planimeter). This stream is fed by numerous small lakes and ponds which are found at its headwaters. Many muskeg areas.
STREAM MOUTH IDENTIFICATION Enters Naukati Bay 0.5 mile N W of WC 54. The tidal flats of these two streams infringe upon each other.
ANCHORAGE Caution should be taken when running in these waters.
TRAILS AND SURVEY ROUTES No trails and numerous downfalls. A difficult stream to survey.
AERIAL SURVEY NOTES Poor for aerial surveying.

INTERTIDAL ZONE

LENGTH 0.5 mile.
AVERAGE WIDTH/DEPTH 30'-40'/8"-10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Coarse gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Fish school off the mouth and in several large holes just below the high tide mark.
SPAWNING AREAS Pinks spawn to a large extent in the upper part of this zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 2 miles.
AVERAGE WIDTH/DEPTH 25'-30'/15"-20".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mud, sand, and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Falls 2 miles upstream is at least a partial block to salmon.
TRIBUTARIES None
SCHOOLING AREAS There are small holes throughout, many formed by downfalls.
SPAWNING AREAS The first 1.5 miles contains good spawning gravel. At the 1.5 mile mark, the stream enters a steep-sided canyon with a bedrock and boulder bottom; following this, fair spawning facilities extend to the lake.
GENERAL NOTES

122-31

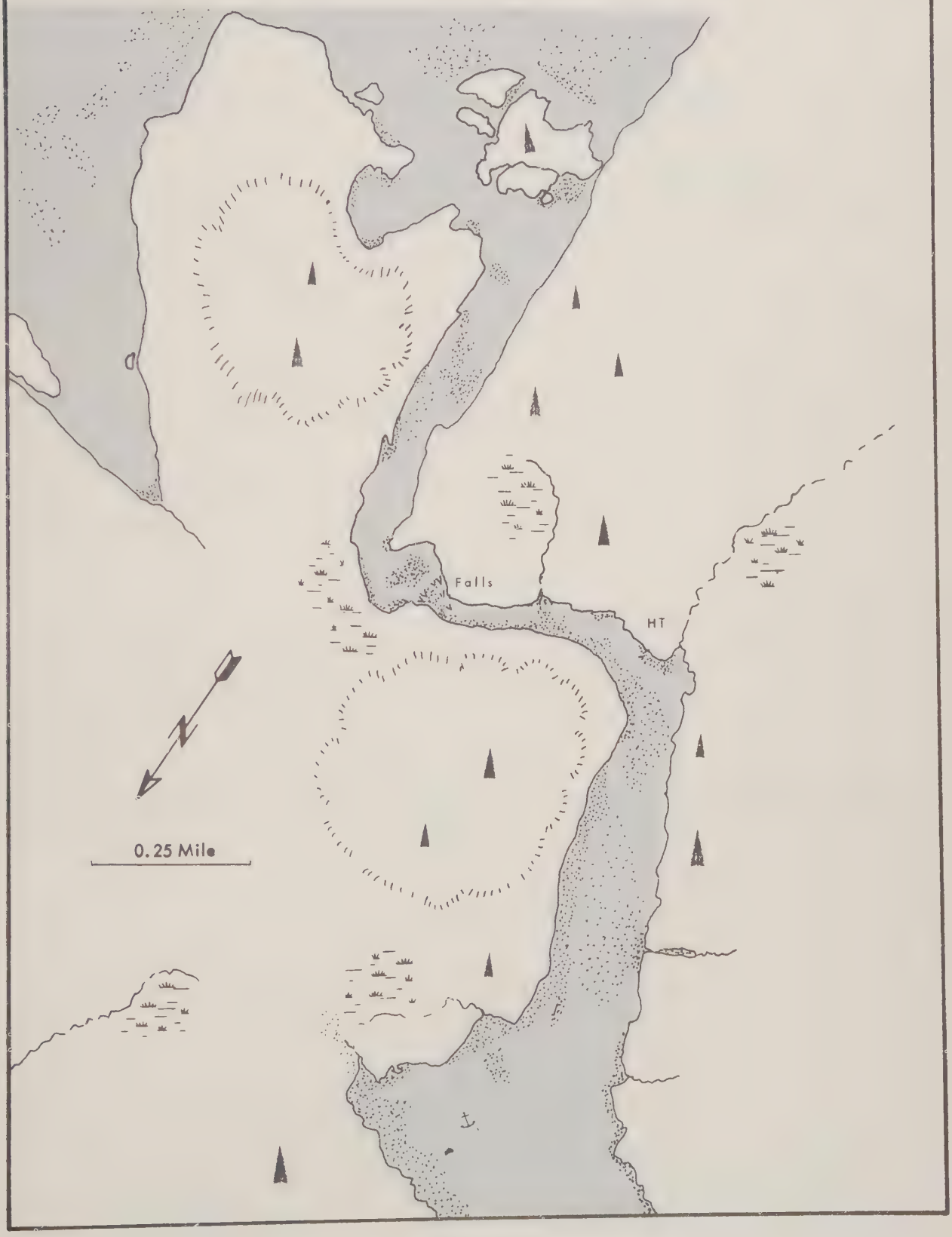
ADF STAT. No.
WC 55
Previous No. 26
ADF No. 161
FWS No. 23

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
Sep 9		FWS	7,500		500		200 coho	
1942								
Sep 16		FWS	20,000		2,000			Good
1943								
Sep 28		FWS	30,000		5,000			Excellent
1944								
Oct 17		FWS	3,000		450			Poor
1945								
Sep 21		FWS	18,000		3,500			Excellent
1947								
Oct 2	G 0.3	FWS	300					Fair. Few live chum
1948								
Sep 10	G 2.5	ASI	4,100	200	17,050	1,226		Dead are spent
Sep 26		FWS						Fair. Chum good. Pink fair
Oct 12	G 1.5	ASI	1,750	835	375	960	35 coho	Good
1949								
Aug 7	G 2.5	FRI	50		0			
Sep 3	G 0.8	FRI	378		28	2		
Sep 13	G 3.0	FRI	720	12	2,666	644		
Sep 27	G 2.8	FRI	3,510	1,019	89	705		
1957								
Sep 16	G 1.3	FWS	77	8	400	200		2,000 chum at mouth
1960								
Aug 17	A	ADF	0		0			No fish showing in bay
Aug 22	A	ADF	0		0			1,000 pink at mouth. Visibility poor
Sep 2	G 0.5	ADF	500		200			2,000 pink and chum at mouth
Sep 14	G 1.5	ADF	25,000		1,000			3,500 pink off mouth
1961								
Aug 15	A	ADF						100 pink at mouth
Aug 22	G 0.5	ADF	13		1			480 pink at mouth. Stream very low. Initial entry
Sep 12	A	ADF	1,500					
Sep 27	A	ADF			300	200		Visibility poor
1962								
Sep 3	A	ADF	200					Few chum. 20,000-25,000 fish off 161A-B

122-51 SARKAR CREEK WC56



122-31 SARKAR CREEK ADF STAT. No. WC 56
55°57.3' N. 133°14.5' W. Previous No. 22

WEST COAST, EL CAPITAN PASSAGE, SARKAR COVE, Head.

MAJOR SPECIES Pink, red, coho. OTHER SPECIES Chum.
ESCAPEMENT TIMING Early. June-Aug. (red) Late. /Sep.-Oct. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. Observed temperature: 60° F. 8/17/53.
VALLEY DESCRIPTION A short valley connecting a small lake with Sarkar Cove. Heavily forested for a considerable distance away from the stream. Slopes to each side have a moderate gradient.
DRAINAGE 132 square miles (polar planimeter). Drains a brackish lake about 3 miles long and 0.5 mile wide. Several small streams empty into the lake.
STREAM MOUTH IDENTIFICATION
ANCHORAGE The cove offers good anchorage in 6 to 8 fathoms; mud bottom.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES Cannot be surveyed by air.

INTERTIDAL ZONE

LENGTH AVERAGE WIDTH/DEPTH 75'/ -
GRADIENT AND VELOCITIES Gentle.
BOTTOM Boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 100'/12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mixed bedrock, boulders, and gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS Spawning has not been observed in the portion of the stream shown on the map.
GENERAL NOTES This one should probably be considered a salt lagoon. Three streams empty into the salt lake.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
		FWS	32,000				14,000 coho	
1942								
Sep 17		FWS	18,000				6,000 coho, 50,000 red	
1943								
Sep 23		FWS	5,000		2,500		5,000 coho, 15,000 red	
1944								
Sep 25		FWS	15,000		1,400		6,700 coho	Fair
1947								
Oct 2		FWS						Poor
1950								
June 18		FWS					125 red	
June 24		FWS					600 red	
July 1		FWS					2,400 red	
July 8		FWS					350 red	
July 15		FWS					300 red	
July 22		FWS					50 red	
July 29		FWS					50 red	
Aug 4		FWS					200 red	
1953								
July 8	G 0.8	FWS					5,000 red	
1954								
Aug 24	A 0.8	FRI						Numerous fish jumping at chuck
1957								
Sep 18	G 0.8	FWS	58	5				
1959								
Aug 17	A	ADF	12,000				400 coho, 17,000 red to date	
Sep 6	A	ADF	9,000		0		27,000 coho	None at mouth

122-51

CAMP TAYLOR CREEK

WC57

122-51 CAMP TAYLOR CREEK ADF STAT. No. WC 57
56°03' N. 133°15.3' W. Previous No. 21
ADF No. 157
WEST COAST, EL CAPITAN PASSAGE, SARHEEN COVE, Head. FWS No. 26

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Aug.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 3.3 square miles (polar planimeter). Precipitation-fed. Largely a muskeg drainage area.
STREAM MOUTH IDENTIFICATION
ANCHORAGE A rock is reported 100 yards off the S. point at the entrance. Suitable anchorage can be found within except for the head end which has shoals.
TRAILS AND SURVEY ROUTES The flats are best navigated on the left side. Follow the stream-bed upstream.
AERIAL SURVEY NOTES Not surveyed from the air.

INTERTIDAL ZONE

LENGTH 0.2 mile. AVERAGE WIDTH/DEPTH 15'-20'/10"-15".
GRADIENT AND VELOCITIES Steep to moderate.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Two fairly large holes at the upper end serve as the major schooling areas. Fish also school off the mouth below the cut-bank.
SPAWNING AREAS The 1,000' of spawning area in this zone serves as the major spawning ground in this stream. Gravel is predominant except in the upper 200' where boulders persist.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile. AVERAGE WIDTH/DEPTH 10'-14'/10".
GRADIENT AND VELOCITIES Steep.
BOTTOM Gravel and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 6' waterfall 1 mile upstream is a total block.
TRIBUTARIES None.
SCHOOLING AREAS Occasional small pools.
SPAWNING AREAS Not much spawning in the upstream section.
GENERAL NOTES

CAMP TAYLOR CREEK - Continued

ADF STAT. No. WC 57
Previous No. 21
ADF No. 157
FWS No. 26

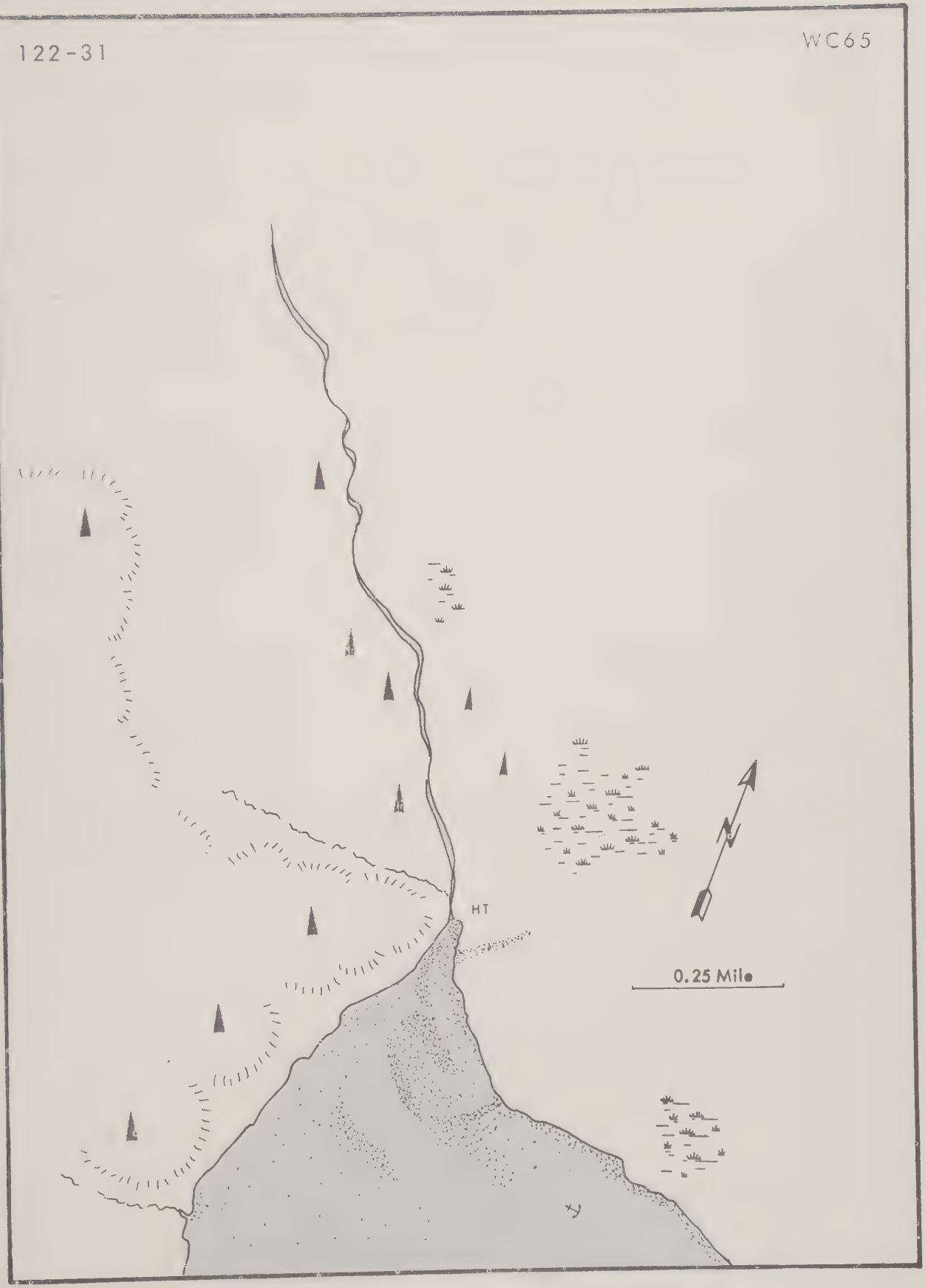
ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1942								
Sep 18		FWS	8,000		2,000			Good
1943								
Sep 23		FWS	10,000		1,000			Excellent
1944								
Aug 25		FWS	7,000		1,800			Excellent
1945								
Sep 19		FWS	150,000		1,600			Excellent
1946								
Oct 15		FWS	20,000		5,000			Excellent
1947								
Oct 4		FWS	1,000		1,000			Poor
1948								
Aug 26	G 1.0	FWS	5		6			4,000 off mouth
Sep 16	G 2.0	ASI	209	250	105	40	2 coho	10 dead coho
Oct 4		FWS						Poor
Oct 10	G 1.0	ASI	10	4	5	9	7 coho	Poor
1949								
Aug 8	G 1.0	FRI						Too early
1953								
Aug 24		FWS						1,000-2,000 going upstream
Sep 19	G 1.5	FRI	170	0	75	40		None at mouth
1957								
Sep 17	G 1.0	FWS	250	0	75			400 pink off mouth
1961								
Aug 7	G 0.3	ADF						300 pink and chum at mouth
Aug 22	G 0.5	ADF	130					1,500-2,000 in bay. Stream low
Aug 27	G 0.7	ADF	1,010		63		2 coho	2,000 pink and chum at mouth
Sep 27	A	ADF			600			1,600 dead pink and chum
1962								
Aug 17	G 0.5	ADF			35			125 pink, 2 chum at mouth, stream low
Sep 3	A	ADF	900					Stream very low
Oct 4	G	ADF	100					

122-31

WC65



122-31
56°06.1' N. 133°19.5' W.

ADF STAT. No.
WC 65
Previous No. 20
ADF No. 150
FWS No. 27

WEST COAST, EL CAPITAN PASSAGE, DEVILFISH BAY, N. shore at entrance.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 1.2 square miles (polar planimeter). Precipitation-fed.
STREAM MOUTH IDENTIFICATION Lies in the N W. corner of outer Devilfish Bay. Enters a small tideflat.
ANCHORAGE Temporary anchorage is available off the mouth.
TRAILS AND SURVEY ROUTES The stream is fairly accessible, but no trails follow the banks.
AERIAL SURVEY NOTES Cannot be surveyed by air.

INTERTIDAL ZONE

LENGTH 300 yards. AVERAGE WIDTH/DEPTH 20'/4"-6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Mud, shell, and rock.
LOW TIDE LOCATION
HIGH TIDE LOCATION At the entrance to the timber.
SCHOOLING AREAS The only intertidal schooling area is off the mouth.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile. AVERAGE WIDTH/DEPTH 15'/3".
GRADIENT AND VELOCITIES Moderate to steep.
BOTTOM Gravel and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS Holes are interspersed between riffle areas.
SPAWNING AREAS Spawning areas start at tidewater and extend as far as the stream has been surveyed.
GENERAL NOTES

ADF STAT. No. WC 65
Previous No. 20
ADF No. 150
FWS No. 27

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
		FWS	19,000		800			Fair
1942								
Sep 12		FWS	5,000					Fair
1943								
Sep 23		FWS	5,000		1,000			Good
1944								
Sep 25		FWS	26,500		8,500			Excellent
1945								
Sep 11		FWS	70,000		1,200			Excellent
1946								
Oct 5		FWS	25,000					Good
1947								
Oct 1		FWS	200		500			Poor
1948								
Oct 4		FWS	15,000					Fair
1949								
Sep 10		FWS	10,000					
1957								
Sep 20	G 1.0	FWS	85	30				
1959								
Aug 20	A	ADF	250		53			15,000 at mouth
Aug 29	A	ADF	15,000		0			None at mouth
1960								
Aug 30	A	ADF	0		0			100 pink at mouth
Sep 24	G	ADF	500		200			Streamguard est. for season
1961								
Aug 7	G 0.2	ADF						85 pink at mouth. Stream low
Aug 15	A	ADF	200					100 pink at mouth
Aug 23	G 0.5	ADF	309		1			500 pink at mouth. Stream flooding
Aug 28	G 0.7	ADF	1,930		2			250 pink at mouth. Mostly fresh fish
Sep 8	A	ADF						700 fish all in intertidal
1962								
Aug 17	G	ADF						Stream low
Sep 3	A	ADF						Few fish at mouth

HT
0.25 Mile

122-31 DEVILFISH CREEK ADF STAT. No. WC 66
56°04.8'N. 133°23,2' W. Previous No. 19
ADF No. 150A
WEST COAST, EL CAPITAN PASSAGE, DEVILFISH BAY, Head. FWS No. 27A

MAJOR SPECIES Pink. OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Aug. Sept. Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Glacial-cut in its upper reaches, stream-cut in the lower part. The valley walls adjacent to the S. fork are very steep. Sparsely forested, especially along the S. fork.
DRAINAGE 2.2 square miles (polar planimeter). Precipitation-fed.
STREAM MOUTH IDENTIFICATION Extensive intertidal area. The stream nearly dissects its tidal flat.
ANCHORAGE Anchor off the mouth of WC 65 and run into the inner bay in a skiff. The channel is best seen at low water.
TRAILS AND SURVEY ROUTES A fair trail follows the left bank. An easy stream to survey.
AERIAL SURVEY NOTES Aerial visibility is good at low water stages.

INTERTIDAL ZONE

LENGTH 0.5 mile. AVERAGE WIDTH/DEPTH 15'-25'/10"-20".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Schooling takes place off the mouth and in a pool just below the high tide mark.
SPAWNING AREAS Fair spawning throughout.
GENERAL NOTES A tributary enters near the upper end of this zone. Not accessible to salmon.

UPSTREAM

LENGTH ACCESSIBLE 2 miles. AVERAGE WIDTH/DEPTH 10'-15'/6"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel, rock, and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES None.
SCHOOLING AREAS A large number of holes are interspersed between the riffle areas.
SPAWNING AREAS Bedrock outcroppings limit the spawning area in the upper reaches. Some spawning area is available within the lower mile.
GENERAL NOTES

DEVILFISH CREEK - Continued

ADF STAT. No. WC 66
Previous No. 19
ADF No. 150A
FWS No. 27A

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Oct 1		FWS	8,000					
1941								
Sep 10		FWS	3,500					Poor
1942								
Sep 12		FWS	15,000		3,000			Good
1943								
Sep 23		FWS	25,000		2,000			Excellent
1944								
Sep 24		FWS	3,500		150			Poor
1945								
Sep 17		FWS	40,000		600			Excellent
1946								
Oct 15		FWS	6,000		1,000			Poor
1947								
Oct 1		FWS	1,000		500			Poor
1948								
Oct 4		FWS	2,000					Poor
1949								
Sep 10		FWS	1,000					
1952								
Sep 21	G 0.2	FWS	22	2				
1954								
Sep 20	G 0.3	FRI	500					Several dead pink. Few at mouth
1957								
Sep 20	G 0.8	FWS	425	75				
1960								
Aug 30	A	ADF	0		0			100 pink at mouth
Sep 24	G	ADF	1,000		500			Streamguard estimate for season
1961								
Aug 3	A	ADF						300 fish in outer bay. Stream low
Aug 7	G 0.7	ADF	60					First showing. All fresh fish
Aug 15	A	ADF	1,300					Jumps at head of bay
Aug 23	G 1.2	ADF	950		150			300 pink and chum at mouth. Stream very high and discolored
Aug 28	G 1.5	ADF	1,518		61		1 coho	Pink spawning. Spent chum in intertidal zone
Sep 8	A	ADF	1,200		600			Most fish in intertidal zone
1962								
Aug 17		ADF	300					

122-31 TOKEEN CREEK ADF STAT. No. WC 67
56°00.7' N. 133°22.4' W. Previous No. 25
ADF No.156A
WEST COAST, DAVIDSON INLET, TOKEEN BAY, E. shore of bay 0.3 mile from entrance. FWS No. 28A

MAJOR SPECIES Pink, chum. OTHER SPECIES Coho, red.
ESCAPEMENT TIMING Late. Aug.-Oct. ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. Observed temperatures: 57.5°F., 9/10/50; 54°F., 9/21/50; 56°F., 9/15/51; 56.5°F., 8/17/52; 59°F., 8/26/52; 54°F., 9/7/52; 51°F., 9/16/52; 51°F., 10/1/52; 61.5°F., 8/25/53; 53°F., 9/11/53; 53°F., 9/19/53; 47°F., 9/30/53; 59°F., 9/8/54; 56°F., 9/20/54.
VALLEY DESCRIPTION
DRAINAGE 3.1 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION The stream enters a lagoon which is connected to Tokeen Bay by a small channel.
ANCHORAGE Anchorage can be found about 0.5 mile E. of the N. point at the entrance to the bay.
TRAILS AND SURVEY ROUTES Easily waded. Best to stay in the streambed.
AERIAL SURVEY NOTES Aerial visibility is poor.

INTERTIDAL ZONE

LENGTH 200 yards. AVERAGE WIDTH/DEPTH 20'/3"-4".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Gravel and large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Salmon school very heavily in the lagoon.
SPAWNING AREAS Not much spawning in this zone.
GENERAL NOTES Can also anchor in the bight across from the stream mouth.

UPSTREAM

LENGTH ACCESSIBLE 1 mile to lake. AVERAGE WIDTH/DEPTH 25'/12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel, large boulders, and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A small falls 1 mile upstream partially blocks the passage of fish at low water levels.
TRIBUTARIES None reported.
SCHOOLING AREAS A fair number of small pools offer schooling facilities.
SPAWNING AREAS Most of the spawning takes place in the lower three-fourths mile. The last one-fourth mile is mostly white water.
GENERAL NOTES

TOKEEN CREEK - Continued

ADF STAT. No. WC 67
Previous No. 25
ADF No. 156A
FWS No. 28A

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
Sep 18	G	FWS	22,000		500		200 coho	Excellent
1942								
Sep 20	G	FWS	8,000		500		1,000 coho	Good
1943								
Sep 24	G	FWS	12,000		3,000			Excellent
1944								
Sep 21	G	FWS	55,000		25,000			Excellent
1945								
Sep 17	G	FWS	250,000		8,000			Excellent
1946								
Oct 13	G	FWS	125,000		20,000			Excellent
1947								
Oct 13	G	FWS	40,000		15,000			Excellent
1948								
Oct 3	G	FWS	50,000		35,000			Excellent
1949								
Aug 9	G 1.0	FRI	0		0			
Sep 3	G 1.0	FRI	7,190		200			
Sep 26	G 1.0	FRI	10,650		3,570			
1950								
Sep 10	G 1.0	FRI	2,070	18	63	21		
Sep 21	G 1.0	FRI	2,835	21	515	27		
Oct 5	G 1.0	FRI	850	11,000	24	950		
1951								
Sep 15	G 1.0	FRI	33,300	0	1,200	3		5,000 off mouth
1952								
Aug 17	G 0.3	FRI	0	0	0	0		Several hundred red off mouth
Aug 26	G 0.3	FRI	0		0			
Sep 7	G 0.3	FRI	200	3	0	0		5 chum, 200 pink off mouth
Sep 16	G 0.3	FRI	3,200	8	900	1		None off mouth
Oct 1	G 0.3	FRI	700		1,100			Many chum, some pink dead
1953								
Aug 25	G 0.3	FRI	0	0	0	0	Some red	
Sep 11	G 0.3	FRI	22	0	125	0	Sev. coho	Good showing of pink outside
Sep 19	G 0.3	FRI	178	0	2,011	70		Many chum, pink in upper bay.
Sep 30	G 0.3	FRI	65	30	835	370		None at mouth
1954								
Sep 8	A 0.3	FRI	3,900	11	700	>3		10,000 at mouth
Sep 20	G 0.3	FRI	1,750	850	550	670		10,000 pink at mouth
Sep 25	A 0.3	FRI	7,000		1,200			Many dead chum, pink.
1955								
Aug 19	A 0.3	FRI						None observed. Few at mouth
Aug 28	A 0.3	FRI	200					Several thousand at mouth
Sep 5	A 0.3	FRI	400					Some at mouth
Sep 16	A 0.3	FRI	800		1,200			Many chum, some pink dead. 2,000 chum, pink at mouth
Sep 23	A 0.3	FRI	2,500		500	970		Some dead pink. 2,000 at mouth
Sep 28	A 0.3	FRI	6,000					Some chum. Many chum, pink dead
1956								
Sep 7	A 0.3	FRI	2,000					Some dead pink. Thousands of chum, pink at mouth

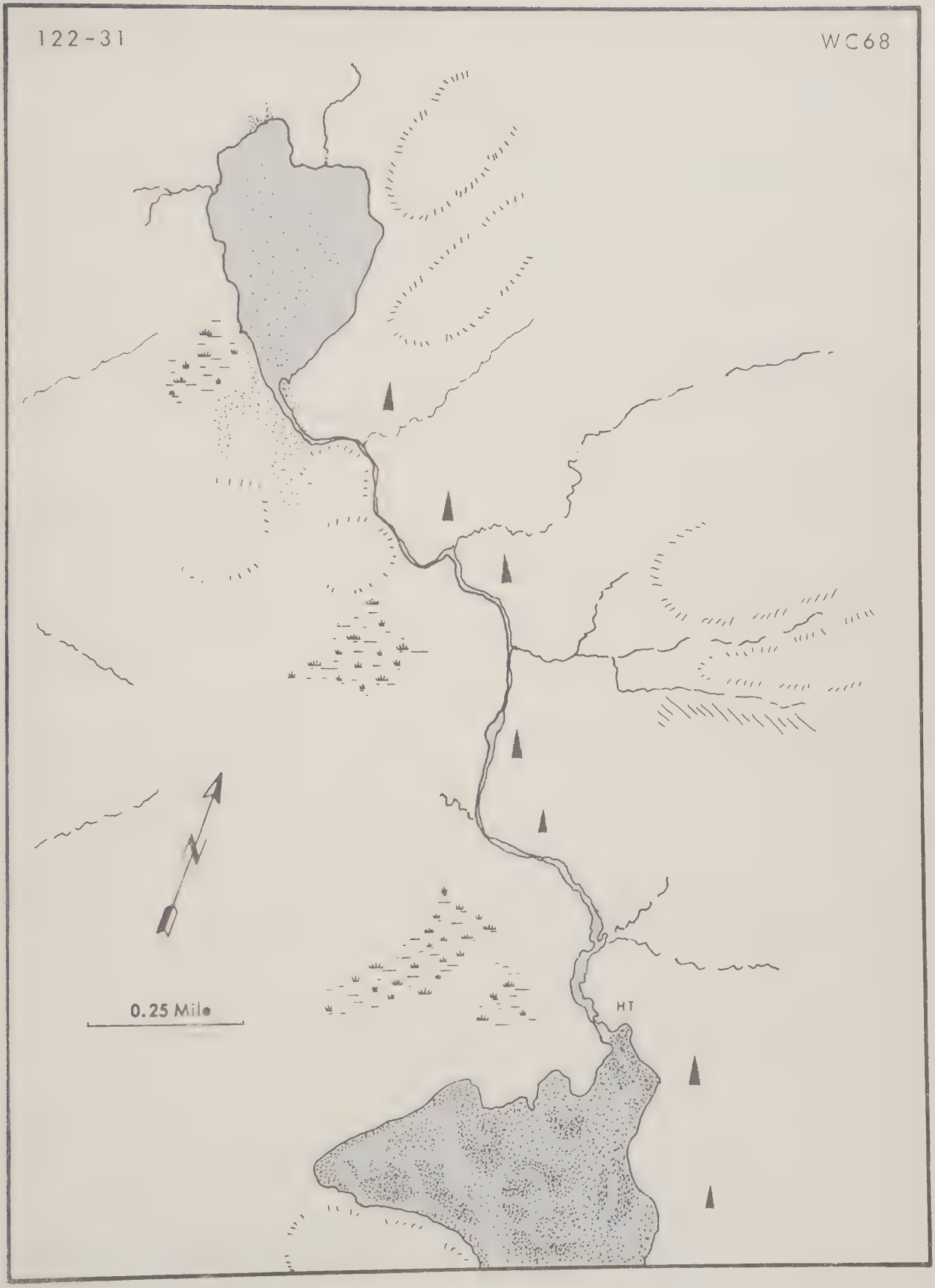
TOKEEN CREEK - Continued

ADF STAT. No.
WC 67
Previous No. 25

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1956								
Sep 17	A 0.3	FRI	>2,000		>1,000			Many chum, some pink dead. 15,000 chum, 40,000 pink in lagoon and mouth
Sep 23	A 0.3	FRI						15,000 chum, pink in creek. Thousands of pink and chum at mouth
Sep 28	A 0.3	FRI	12,000		5,000	>2,000		Many dead pink. 30,000 chum at mouth. 5,000 chum above marker
1957								
Aug 25	A 1.0	FRI						None observed. Water low
Sep 2	A 1.0	FRI						Few live pink. Bear seen
Sep 9	A 1.0	FRI	300	0				Some live chum. >1,000 chum at mouth
Sep 22	A 1.0	FRI	>1,000	200	>3,000	200		Several hundred in tributary above lake
1958								
Aug 25	A 1.0	FWS						None observed. Too early
Sep 7	A 1.0	FWS						100 pink schooled off mouth
1961								
Aug 3	A	ADF						Stream almost dry
Aug 15	A	ADF	300					Stream level better, jumps in bay
Aug 26		ADF	6,070					Fish from mouth to lake. Few other fish
Sep 27	A							Few live fish. 4,600 dead pink and chum
1962								
Aug 13	A	ADF						Stream low
Aug 17	G	ADF	5				3 red	1,000 pink and chum at mouth, all bright but chum
Sep 3	A	ADF	1,700					700 pink at mouth, few dead
Oct 4	G 0.5	ADF	4,000	3,000				Many dead


0.25 Mile
HT

122-31
56°02.4' N. 133°22.8' W.

WEST COAST, DAVIDSON INLET, TOKEEN BAY, Head.

ADF STAT. No.
WC 68
Previous No. 24
ADF No. 156
FWS No. 28

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho, red.
ESCAPEMENT TIMING Late. Aug.-Oct. (est.)
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Glacial-cut. Mountains border all sides of the valley.
DRAINAGE 3.2 square miles (polar planimeter) Drains a small lake. Many small streams enter both the lake and the stream.
STREAM MOUTH IDENTIFICATION Enters the head of Tokeen Bay. A tideflat, 0.4 mile in length, is found at the mouth.
ANCHORAGE Refer to WC 67.
TRAILS AND SURVEY ROUTES The banks of the stream are brushy with many windfalls, but the stream is easily waded.
AERIAL SURVEY NOTES Overhanging trees and brush make aerial visibility poor.

INTERTIDAL ZONE

LENGTH 0.2 mile.
AVERAGE WIDTH/DEPTH 30'-35'/10"-12".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Large rocks and gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Two pools just below the high tide mark and the bay off the mouth are the main schooling areas.
SPAWNING AREAS Good spawning areas are found throughout this zone.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1 mile.
AVERAGE WIDTH/DEPTH 20'-30'/6"-10".
GRADIENT AND VELOCITIES Steep to moderate.
BOTTOM Gravel and boulders.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS A 6' falls 1 mile upstream presents a partial block to salmon passage.
TRIBUTARIES None reported.
SCHOOLING AREAS Numerous pools are found throughout the distance surveyed.
SPAWNING AREAS Spawning areas are scattered due to areas of boulders.
GENERAL NOTES The stream divides into many channels a short distance above tidewater and forks about 0.5 mile upstream.

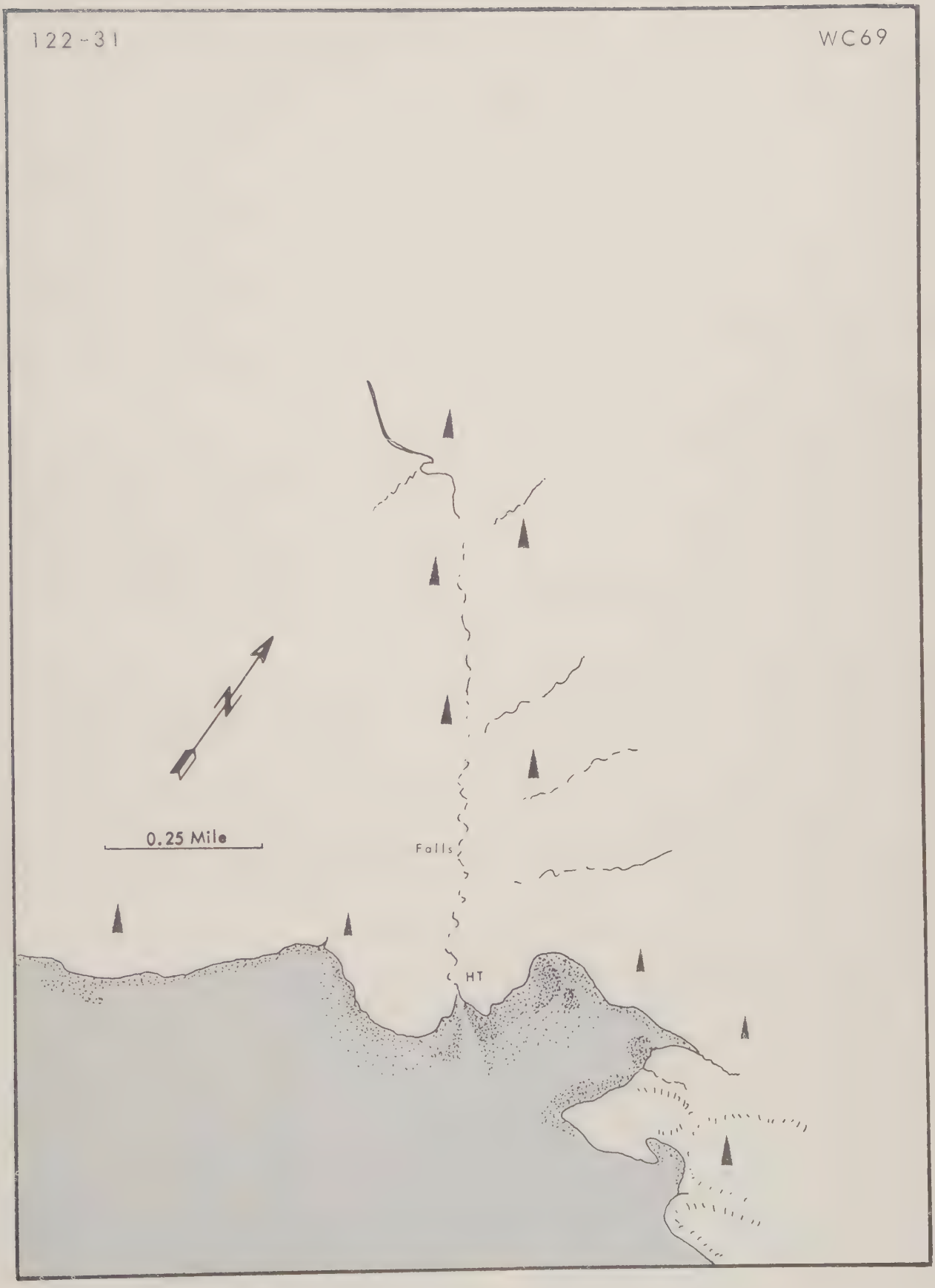
122-31

ADF STAT. No.
WC 68
Previous No. 24

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
		FWS	64,000		2,800			Excellent
1942								
		FWS	10,000					Good
1943								
Sep 24		FWS	12,000		3,000			Excellent
1944								
Sep 21		FWS	26,000		8,500		1,200 coho	Excellent
1945								
Sep 17		FWS	98,000		19,000			Excellent
1946								
Oct 13		FWS	35,000		8,000			Good
1947								
Oct 3	G 1.5	FWS	24,000		6,000			Excellent. 5,000 off mouth
Oct 13		FWS	35,000		15,000			Good
1948								
Aug 16	G 1.0	ASI	0		0			Some at mouth
Sep 15	G 1.0	ASI	60,700		1,490			Good
Oct 3		FWS	18,000		4,000			Good
Oct 10	G 1.0	ASI	15,700		790			Good
1949								
Aug 9	G 0.5	FRI						None seen
Sep 16		FWS	15,000					
Oct 1		FWS	3,800		100			
1953								
Sep 19	G 0.8	FRI	350	25	300	25	20 coho, 1 red	Spawning peak.
1959								
Aug 17	A	ADF	500		0			None at mouth
1960								
Aug 3	A	ADF	0		0			None at mouth
Aug 17	A	ADF	0		0			Few chum at mouth
Aug 22	A	ADF	0		0			2,000 pink and chum at mouth
Aug 31	G 2.0	ADF	600		600			5,000 pink and chum at mouth
Sep 27	A	ADF	0		0			None at mouth
1961								
Aug 26	G 0.7	ADF	2,125		88			1,500-2,000 fish off mouth, fish well distributed
Sep 27	A	ADF			1,200			2,900 dead pink and chum
1962								
Aug 13	A	ADF						400-600 pink at mouth. Stream low
Aug 15	G 1.0	ADF						400 pink and chum at mouth. 120 fish in stream. Stream low
Sep 3	A	ADF	500					7,000 pink and chum at mouth. Stream low. Visibility good.


0.25 Mile
Falls
HT

ADF STAT. No.
WC 69
Previous No. 23
ADF No. 155
FWS No. 28C

122-31
56°01.2' N. 133°24.5' W.

WEST COAST, DAVIDSON INLET, TOKEEN BAY, 2 miles from head on W. shore.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep. (estimated). ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm Range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 1.9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE See WC 67.
TRAILS AND SURVEY ROUTES The stream is small and free enough of debris to wade up the creek. This is the easiest means of surveying.
AERIAL SURVEY NOTES Not surveyed by air.

INTERTIDAL ZONE

LENGTH 50 yards. AVERAGE WIDTH/DEPTH 10'/4".
GRADIENT AND VELOCITIES Steep.
BOTTOM Large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off the mouth.
SPAWNING AREAS None.
GENERAL NOTES Almost impossible for fish to get through at low water levels.

UPSTREAM

LENGTH ACCESSIBLE 1 mile. AVERAGE WIDTH/DEPTH 10'/10".
GRADIENT AND VELOCITIES Steep.
BOTTOM Gravel, boulders and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Two small falls are found about one-fourth mile above the high tide mark.
TRIBUTARIES None.
SCHOOLING AREAS Several large holes below the second falls offer facilities for schooling.
SPAWNING AREAS Very few areas offer suitable spawning facilities.
GENERAL NOTES Above the second falls the gradient becomes very steep and the stream narrows between steep banks.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941		FWS	25,000					Excellent
1942		FWS	5,000					Fair
1943 Sep 24		FWS	6,000		4,000			Good
1944 Sep 21		FWS	15,000		12,000			Excellent
1945 Sep 16		FWS	20,000		7,000			Excellent

HT
N
0.25 Mile

122-31
56° 02.8' N. 133° 28.8' W.

HOLBROOK CREEK

ADF STAT. No.
WC 70
Previous No. 9
ADF No. 154
FWS No. 29

WEST COAST, DAVIDSON INLET, HOLBROOK BAY, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep. (estimated) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut. A short valley connecting a lake with Davidson Inlet.
DRAINAGE 3.1 square miles (polar planimeter) Drains a good sized lake.
STREAM MOUTH IDENTIFICATION Runs past the N. W. end of a small island at the extreme end of the bay.
ANCHORAGE When entering the bay steer a midchannel course. Adequate anchorage may be found in the numerous bights in the Inlet.
TRAILS AND SURVEY ROUTES The stream is best surveyed by wading upstream. This can be done with some difficulty.
AERIAL SURVEY NOTES Not surveyed by air.

INTERTIDAL ZONE

LENGTH 300-400 yards. AVERAGE WIDTH/DEPTH 20'/8" - 10".
GRADIENT AND VELOCITIES
BOTTOM Large boulders and gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Salmon school off the mouth.
SPAWNING AREAS Most of the spawning in the stream takes place in this zone. Fish spawn throughout the area between the low tide and high tide marks.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 0.7 mile. AVERAGE WIDTH/DEPTH 15'/6".
GRADIENT AND VELOCITIES Steep.
BOTTOM Large boulders with small gravel pockets.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Several steep, swift areas present a partial block at low water periods.
TRIBUTARIES None reported.
SCHOOLING AREAS A few small holes offer the only facilities for schooling.
SPAWNING AREAS Only scattered gravel pockets are available for spawning in the upstream section.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

SURVEYED			PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective rating
1941		FWS	32,000		1,200			Good
1942		FWS	10,000		1,000			Fair
1943 Sep 17		FWS	10,000					Good
1944 Sep 21		FWS	7,000		650			Fair
1945 Sep 16		FWS	10,000		1,000			Fair
1953 Sep 16	G 0.1	FWS	100	9	50	10		Dead are bear kills
1960 Aug 22	A	ADF	0		0			No fish in bay. None at mouth.
Aug 29	G 0.5	ADF	0		100			None at mouth. Water high and discolored.

HOLBROOK CREEK - Continued

ADF STAT. No.
WC 70
Previous No. 9

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating

122-31
56°02.5' N. 133°29.5' W.

ADF STAT. No.
WC 71
Previous No. 10
ADF No. 154A
FWS No. 29A

WEST COAST, DAVIDSON INLET, HOLBROOK BAY, 0.3 mile from head on W. shore.

MAJOR SPECIES Pink. OTHER SPECIES
ESCAPEMENT TIMING Late. Sep. (estimated) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor. Limited.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION A valley heavily forested with spruce and hemlock. Surrounded by low mountains.
DRAINAGE 2.3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Several old pilings can be seen 200 yards S. of the mouth.
ANCHORAGE
TRAILS AND SURVEY ROUTES No trails. Wadeable at most water levels.
AERIAL SURVEY NOTES Not surveyed by air.

INTERTIDAL ZONE

LENGTH 100 yards. AVERAGE WIDTH/DEPTH 25'/6"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Heavy rubble.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS The bay off the mouth of the stream is the main schooling area.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE AVERAGE WIDTH/DEPTH 15'-20'/6"-10".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel riffles interspersed among rubble.
MARKER DISTANC
MARKER IDENTIFICATION
BARRIERS A 5' falls near the head of the intertidal zone is passable at high tide.
TRIBUTARIES None.
SCHOOLING AREAS
SPAWNING AREAS Spawning areas are interspersed throughout the distance surveyed.
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective rating
1942		FWS	8,000					Good
1943								
Sep 17		FWS	1,500					Fair
1944								
Sep 21		FWS	800					Poor
1961								
Aug 15	A	ADF						300 pink and chum at mouth
Aug 25	G 0.6	ADF	98		91			100 pink and chum at mouth

122-31 VAN SANT CREEK WC72

122-31
55°59.5' N. 133°32.1' W.

VAN SANT CREEK

ADF STAT. No.
WC 72
Previous No. 8
ADF No. 153
FWS No. 29B

WEST COAST, DAVIDSON INLET, VAN SANT COVE, Head.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Good.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut. W. of the stream, the valley wall rises sharply to the E. The gradient is moderate. Upstream there is considerable high ground on both sides of the stream.
DRAINAGE 2.3 square miles (polar planimeter) Precipitation-fed. A few small ponds are drained by this creek.
STREAM MOUTH IDENTIFICATION
ANCHORAGE A small open bight not suited for overnight anchorage.
TRAILS AND SURVEY ROUTES The streambed is easily followed and this is the best means of surveying. Both banks are very brushy.
AERIAL SURVEY NOTES Not surveyed by air because of small size.

INTERTIDAL ZONE

LENGTH 50' AVERAGE WIDTH/DEPTH 10'/2".
GRADIENT AND VELOCITIES Steep.
BOTTOM Large boulders and some gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Only one pool, at the head of the zone, offers schooling facilities.
SPAWNING AREAS Some spawning takes place in the pool at the head of the zone, but little spawning takes place elsewhere in the intertidal area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE >1 mile. AVERAGE WIDTH/DEPTH 10'/4"-6".
GRADIENT AND VELOCITIES Steep.
BOTTOM Small gravel, some boulders, and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None reported.
TRIBUTARIES None reported.
SCHOOLING AREAS A few small pools are interspersed among the riffles.
SPAWNING AREAS Good spawning areas are found throughout the distance surveyed.
GENERAL NOTES

VAN SANT CREEK - Continued

ADF STAT. No. WC 72
Previous No. 8

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1943								
Sep 17		FWS	50,000					Good
1944								
Sep 20		FWS	12,500		825			Good
1945								
Sep 16		FWS	100,000					Excellent
1946								
Oct 13		FWS	10,000		3,000			Fair
1947								
Oct 3		FWS	8,500		2,500			Excellent
1951								
Sep 14	G 0.3	FRI	900					Many fish at mouth
1953								
Sep 15	G 0.1	FWS	60					

ADF STAT. No.
WC 73
Previous No. 7
ADF No.

122-31
55°58.1' N. 133°35.5' W.

WEST COAST, DAVIDSON INLET, 2 miles N. of Limestone Point.

MAJOR SPECIES Pink.
ESCAPEMENT TIMING Late. Sep. (est.)
SPAWNING FACILITIES
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 1.9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION
ANCHORAGE
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES

OTHER SPECIES
ESCAPEMENT MAGNITUDE

INTERTIDAL ZONE

LENGTH
GRADIENT AND VELOCITIES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

UPSTREAM

LENGTH ACCESSIBLE
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

AVERAGE WIDTH/DEPTH

ESCAPEMENT RECORD

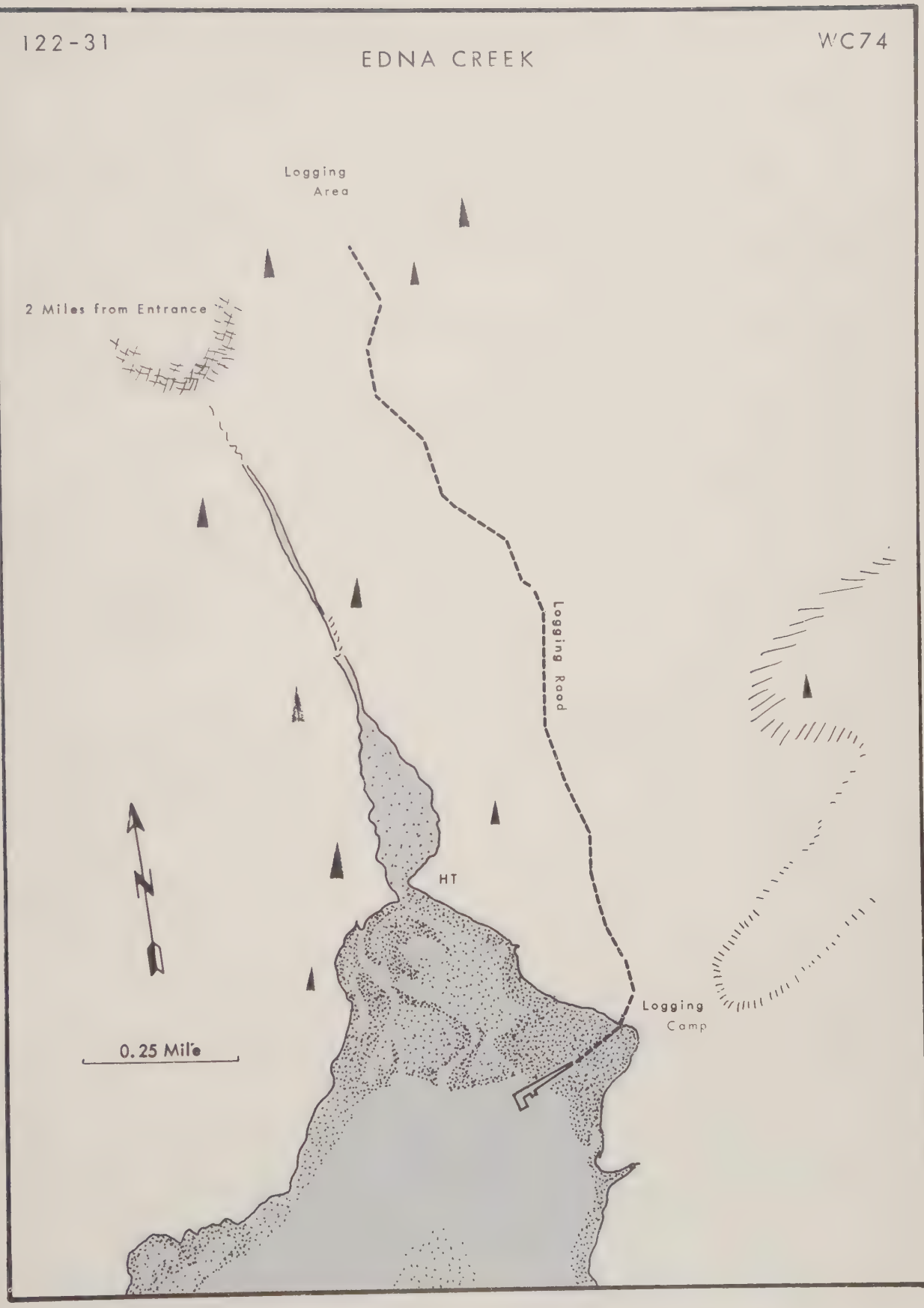
[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1942		FWS	5,000					
1943 Sep 17		FWS	6,000					Good

122-31

EDNA CREEK

WC74



122-31
55°58.2' N. 133°37.8' W.

EDNA CREEK

ADF STAT. No. WC 74
Previous No. 4
ADF No.152A
FWS No. 29C

WEST COAST, DAVIDSON INLET, EDNA BAY, Head of N. arm.

MAJOR SPECIES Pink.
OTHER SPECIES Chum, coho.
ESCAPEMENT TIMING Late. Aug.-Sep.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES
STREAM TEMPERATURES Normal range Observed temperatures: 48°F., 8/28/51; 50°F., 9/14/51; 48°F., 9/24/51; 48°F., 9/4/52; 47°F., 9/15/52; 49.5°F., 9/9/53; 46.5°F., 9/18/53; 44.5°F., 9/29/53.
VALLEY DESCRIPTION
DRAINAGE 1.2 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the E. side of the tideflat at the head of the N. arm.
ANCHORAGE Good anchorage is available.
TRAILS AND SURVEY ROUTES
AERIAL SURVEY NOTES A small stream but clear of overhanging trees and brush. Could be surveyed by air.

INTERTIDAL ZONE

LENGTH
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITES
BOTTOM
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

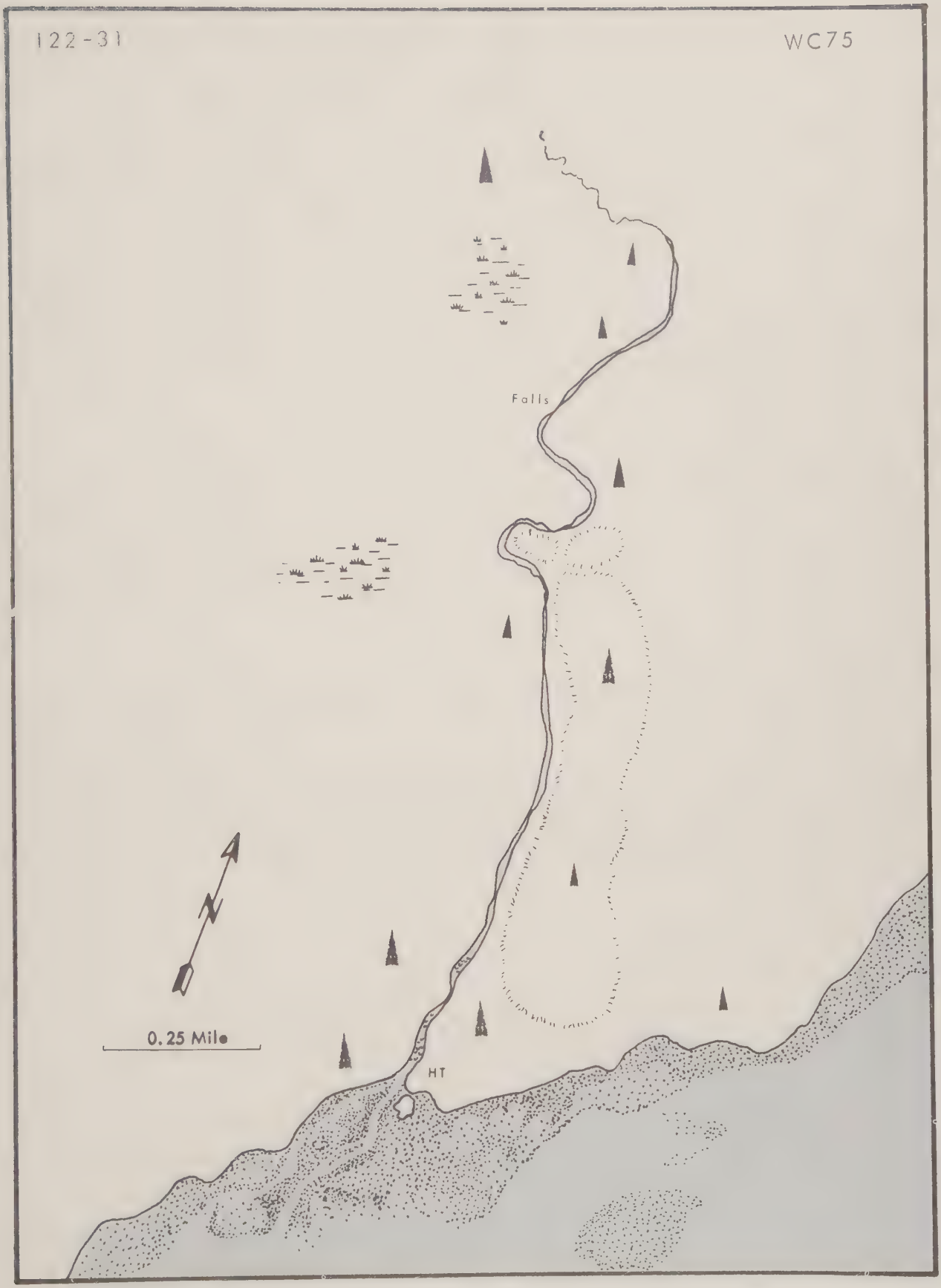
UPSTREAM

LENGTH ACCESSIBLE
AVERAGE WIDTH/DEPTH
GRADIENT AND VELOCITIES
BOTTOM
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS
TRIBUTARIES
SCHOOLING AREAS
SPAWNING AREAS
GENERAL NOTES

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1946								
Oct 13		FWS	3,000		1,000			Fair
1948								
Aug 15	G 1.5	ASI	0		0			1,200 in bay
Sep 14	G 2.5	ASI	33,500		1,975		88 coho	


Falls
0.25 Mile
HT

ADF STAT. No.
WC 75
Previous No. 5

122-31
55°57.7' N. 133°38.4' W.

WEST COAST, DAVIDSON INLET, EDNA BAY, 1 mile S.W. of head.

MAJOR SPECIES Pink, chum.
OTHER SPECIES Coho.
ESCAPEMENT TIMING Late. Aug.-Sep.
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair - good.
STREAM TEMPERATURES Warm range. Observed temperatures: 60°F., 8/21/50; 48°F., 9/1/50; 48.5°F., 9/10/50; 50°F., 9/21/50; 56°F., 8/27/51; 53°F., 9/13/51; 51°F., 9/24/51.
VALLEY DESCRIPTION Runs through a stream-cut, logged-off valley.
DRAINAGE 3.9 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Lies at the head of a small inlet.
ANCHORAGE Refer to WC 74.
TRAILS AND SURVEY ROUTES Bear trails may be followed up either side of the stream. Wadeable at most water levels.
AERIAL SURVEY NOTES Poor aerial visibility due to overhanging brush and trees and dark color of water.

INTERTIDAL ZONE

LENGTH 200 yards.
AVERAGE WIDTH/DEPTH 20'-30'/12".
GRADIENT AND VELOCITIES Steep.
BOTTOM Large boulders.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS One pool just below the high tide mark is utilized.
SPAWNING AREAS Some spawning takes place near the low tide mark.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 4 miles.
AVERAGE WIDTH/DEPTH 30'-40'/12"-24".
GRADIENT AND VELOCITIES Swift to moderate.
BOTTOM Sand, gravel, and rock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Above 2 miles the stream is slow and muddy. Falls, 1.5 mile up, is partial block in low water periods.
TRIBUTARIES None.
SCHOOLING AREAS Pools begin after the first half mile; below this the stream is mostly fast water.
SPAWNING AREAS Good spawning areas are found from the high tide mark to and above the beaver dams.
GENERAL NOTES

122-31

ESCAPEMENT RECORD

ADF STAT. No.
WC 75
Previous No. 5

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Sep 12		FWS	16,000		2,000			Good
1941								
		FWS	47,000		2,000			Excellent
1942								
		FWS	50,000		1,500		1,000 coho	Excellent
1943								
Sep 16		FWS	150,000		1,500			Excellent
1944								
Sep 20		FWS	120,000		3,500		650 coho	Excellent
1945								
Sep 16		FWS	90,000					Excellent
1946								
Oct 13		FWS	50,000		4,000			Good
1947								
Oct 4		FWS	200,000		100,000			Excellent
1948								
Aug 15	G 1.5	ASI						1,200 in bay, mostly pink
Sep 14	G 2.5	ASI	93,500	15	1,940	35	88 coho	
Oct 3		FWS	40,000					Good
1949								
Aug 29	G 1.3	FRI	250					
Sep 12	G 2.0	FRI	7,805		13			
Sep 26	G 2.0	FRI	17,870		55			
1950								
Aug 21	G 2.0	FRI	0		0	1		
Sep 1	G 1.0	FRI	610	4	90	2		
Sep 10	G 1.0	FRI	2,475	62	4	1		
Sep 21	G 1.0	FRI	3,540	973	11	0	75 coho	
Oct 5	G 1.0	FRI	1,100	715	7	50	10 coho	
1951								
Aug 28	G 0.5	FRI	2	0	0	0		
Sep 14	G 1.0	FRI	12,600	0	0	0		
Sep 24	G 1.0	FRI	16,000	110	100	0		
Oct 4	G 0.6	FRI	1,700	300	20	200		
1952								
Sep 4	G 1.0	FRI	84	0	15	0		50 chum, 400 pink at mouth
Sep 15	G 1.0	FRI	4,800	<15	>250	10	Several coho	100 pink at mouth
1953								
Aug 25	G 0.0	FWS						<1,000 chum, pink
Sep 9	G 0.5	FRI	4		0			Visibility very poor
Sep 15	G 0.5	FWS	25	6,100	29			Water dark
Sep 18	G 0.5	FRI	21	0	0	0		Fair visibility
Sep 29	G 1.0	FRI	500		10	0	100 coho	Some dead pink. None at mouth
1954								
Sep 25	A	FRI	6,100				Few coho	Few chum
1955								
Sep 16	A 1.0	FRI	200					
Sep 23	A 1.0	FRI	10,000					Some dead pink. 5,000 above marker
Sep 28	A 1.0	FRI	6,500					Some dead pink. 4,000 above marker
1956								
Sep 17	A 1.5	FRI	>20,000					>50,000 at mouth
Sep 23	A 1.0	FRI	25,000					Many dead pink. >10,000 at mouth
Sep 28	A 1.0	FRI	17,000					Chum present. Many dead pink

122-31 ESCAPEMENT RECORD - Continued

ADF STAT. No.
WC 75
Previous No. 5

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1957								
Sep 9	A 4.0	FRI	>500	0				Some at mouth
Sep 22	A 1.0	FRI	>1,000		>500			Few dead chum, pink.
1958								
Sep 7	A 1.0	FWS						Fish present. Visibility poor
1961								
Aug 3	A	ADF	400					175 pink at mouth. First showing
Aug 15	A	ADF						400 pink at mouth. Visibility poor
Aug 25	G 1.7	ADF	1,402		4			500 pink and chum at mouth
1962								
Aug 13	A	ADF						2,000 salmon at mouth. First showing
Aug 15	A	ADF						4,000-5,000 pink at mouth
Aug 17	G 3.5	ADF	493		94			6,000-7,000 salmon at mouth
Aug 26	G 1.5	ADF	1,700					8,000-9,000 salmon at mouth
Sep 3	A	ADF						9,000-12,000 pink and chum at mouth. Stream low. Visibility poor

Logging
Road
Pool
0.25 Mile
HT
Logging Camp
Boom Sticks

ADF STAT. No.
WC 76
Previous No. 6
ADF No. 152B

122-31
55°56.7' N. 133°39.7' W.

WEST COAST, DAVIDSON INLET, EDNA BAY, S.W. corner of Bay.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sept.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION
DRAINAGE 2.8 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the bay near the logging camp pier.
ANCHORAGE
TRAILS AND SURVEY ROUTES Travel up the streambed.
AERIAL SURVEY NOTES Too small for aerial survey.

INTERTIDAL ZONE

LENGTH 300 yards. AVERAGE WIDTH/DEPTH 10'/2".
GRADIENT AND VELOCITIES Gentle.
BOTTOM Small gravel and large rock.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS School off the mouth.
SPAWNING AREAS Most of the spawning in this stream takes place in the upper half of this zone.
GENERAL NOTES

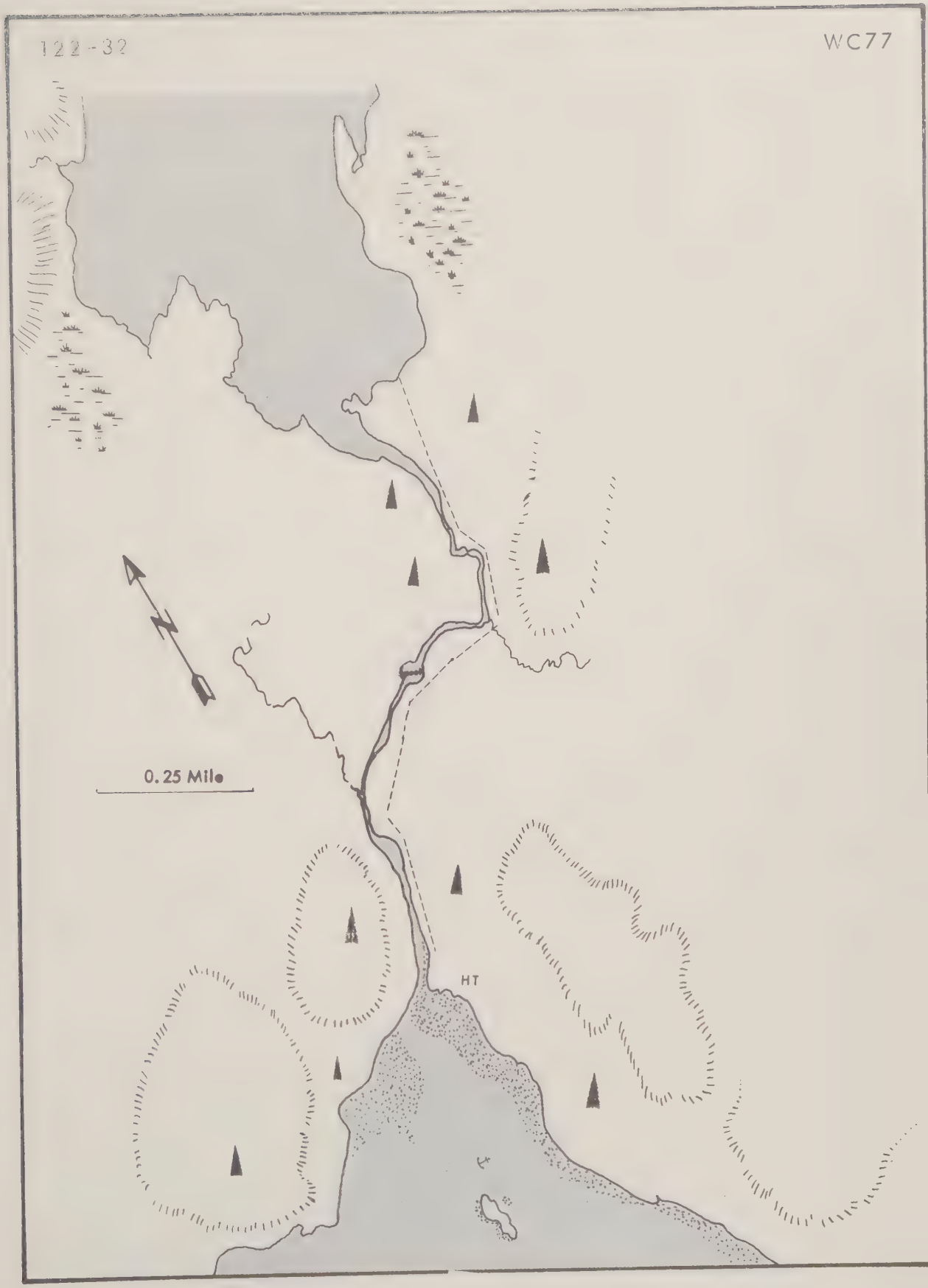
UPSTREAM

LENGTH ACCESSIBLE >0.5 mile. AVERAGE WIDTH/DEPTH 6'-8'/2"-3".
GRADIENT AND VELOCITIES Steep.
BOTTOM Large boulder and bedrock.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None.
SCHOOLING AREAS A very few small pools are available for schooling salmon.
SPAWNING AREAS The spawning area available above the intertidal zone is insignificant.
GENERAL NOTES A very small stream. Not accessible to salmon at low water stages.

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

	SURVEYED		PINK		CHUM		OTHER SPECIES	REMARKS
Date	Miles	By	Live	Dead	Live	Dead	Live	Adjective rating
1942		FWS	5,000					
1943								
Sep 16		FWS	5,000					Poor
1944								
Sep 20		FWS	1,000		500			
1946								
Oct 14		FWS	2,500					Good
1947								
Oct 3		FWS	2,000					Good
1960								
Aug 22	A	ADF	0		0			None at mouth. No fish in bay.
Aug 29	G	ADF	0		0			200 pink at mouth. Initial show of fish


N
0.25 Mile
HT

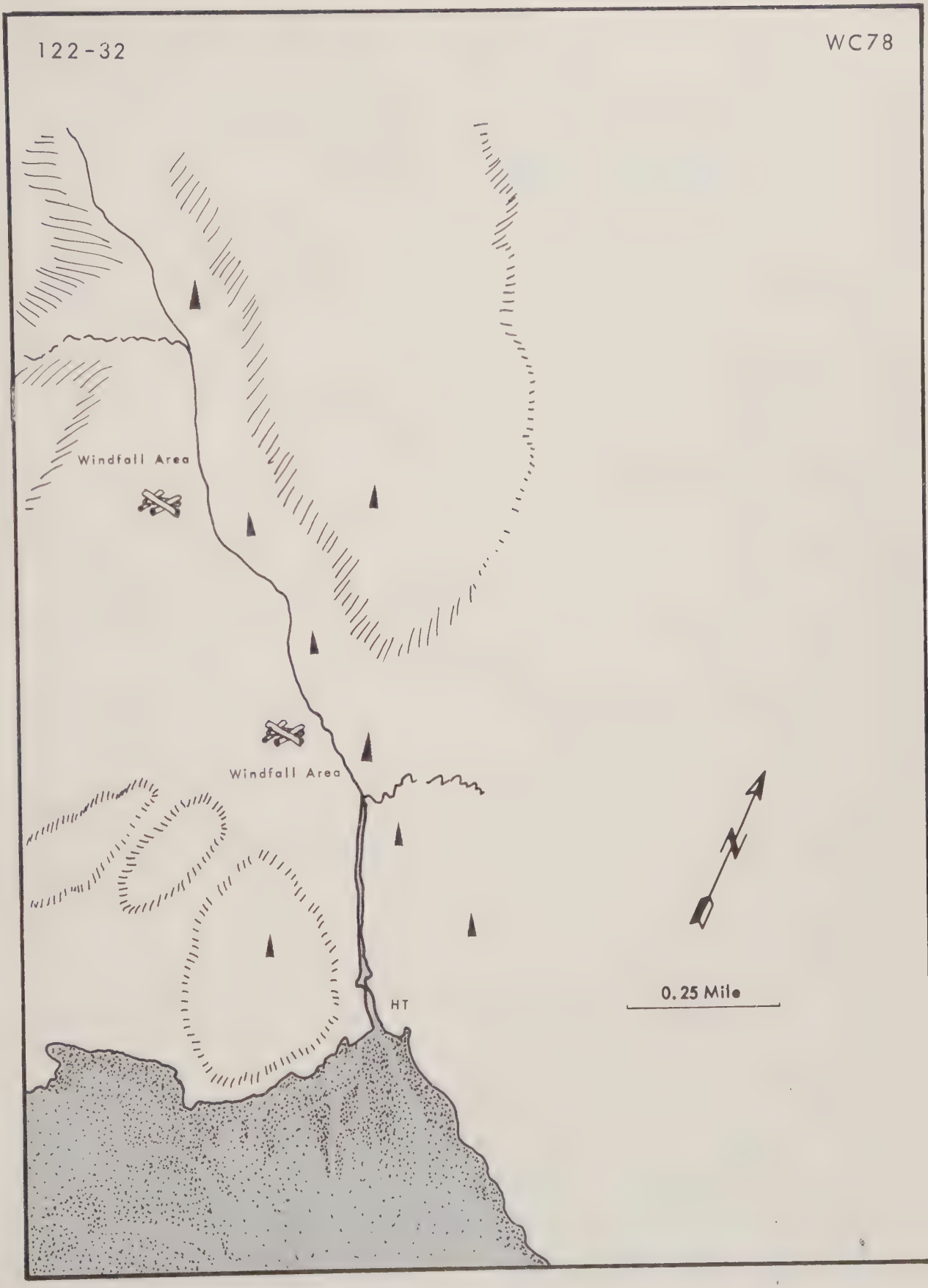
ADF STAT. No.
WC 77
FWS No. 31

U. S. Fish and Wildlife Service Weir Counts

Date	Pink	Chum	Coho	Red	King	Stream gage	Water temp.	Remarks
1950								
Aug 1								
2								
3								
4								
5	15							
6	8							
7	14							
8								
9	4							
10	13							
11	24							
12	13							
13	1							
14	2							
15								
16								
17								
18								
19								
20								
21				3				
22				2				
23				5				
24				16				
25				60				
26	13			926				
27	1			15				
28				33				
29	10		5	67				
30	21		2	21				
31	8			7				
Sep 1								
2	18	1	2	47				
3	16		3	20				
4	2		3	10				
5	67	1	42	16				
6	965		55	32				
7	1,157		53	23				
8	425		2	13				
9	291	1	2	11				
10	18		1	3				
11	90		3	6				
12	66		15	1				
13	46		4	2				
14	753	1	29	12				
15	33		3					
16	615		31					
17	79	1	4	1				
18	265		6	1				
19	1,231	3	110					
20	1,064		201	7				
21	2,376	1	283	31				
22	936	2	147	3				
23	525	1	169	3				
24	111	2	33	2				
Total	11,296	14	1,208	1,399				

122-32

WC78



ADF STAT. No.
WC 78
Previous No. 33
ADF No. 166B
FWS No. 31B

122-32
55°46.8' N. 133°32.6' W.

WEST COAST, TONOWEK BAY, WARM CHUCK INLET, Head of W. arm.

MAJOR SPECIES Pink.
OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep.-Oct. (est.)
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 3 square miles (polar planimeter).
STREAM MOUTH IDENTIFICATION Enters the bay through a small channel. A large tideflat is found at the head of the bay. Most of the flat lies to the W. of the mouth.
ANCHORAGE Refer to WC 77.
TRAILS AND SURVEY ROUTES Very difficult to travel above the intertidal zone. Large number of downfalls.
AERIAL SURVEY NOTES Impossible to survey by air.

INTERTIDAL ZONE

LENGTH 100 yards.
AVERAGE WIDTH/DEPTH 25'/6".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Gravel and sand.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Schooling occurs throughout.
SPAWNING AREAS Poor spawning in intertidal area.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE 1.5 miles.
AVERAGE WIDTH/DEPTH 10'/6".
GRADIENT AND VELOCITIES Steep.
BOTTOM Gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None reported.
SCHOOLING AREAS A few small pools.
SPAWNING AREAS Good gravel and fair spawning areas are found throughout.
GENERAL NOTES

122-32

ADF STAT. No.
WC 78
Previous No. 33

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
		FWS	100,000		8,000			Excellent
1942								
Sep 20		FWS	6,000		1,200			Fair
1943								
Sep 29		FWS	15,000					Good
1944								
Oct 7		FWS	10,000		500			Good
1945								
Sep 21		FWS	1,000		100			Poor
1947								
Oct 6		FWS	2,000					Good
1949								
Oct 1		FWS	4,200					
1953								
Sep 14	G 0.1	FWS						Silt deposit on bottom of stream
1960								
Aug 17	A	ADF	0		0			None at mouth
Aug 28	G	ADF	0		0			Few pink and chum at mouth
Sep 6	A	ADF	0		0			Some pink and chum at mouth
Sep 16	G 1.5	ADF	4,500		200			1,000 pink and chum at mouth
Sep 27	A	ADF	0		0			None at mouth. Many dead fish
1961								
Aug 3	A	ADF						No fish observed
Aug 21	G 1.0	ADF	1,050		4			250 pink at mouth. Stream low.
Sep 12	A	ADF	600	400				1,300 pink and chum at mouth
1962								
Aug 13	A	ADF						Few fish on flats
Sep 3	A	ADF						4,000-5,000 pink and chum at mouth
Sep 18	G 1.5	ADF	3,200		37			200 dead. Heavy spawning

HT
0.25 Mile

122-32
55°45.4' N. 133°30.9' W.

ADF STAT. No.
WC 79
Previous No. 34
ADF No.166C
FWS No. 31C

WEST COAST, TONOWEK BAY, WARM CHUCK INLET, 1.5 miles from head of W. arm.

MAJOR SPECIES Pink.
OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep.-Oct. (est.)
ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Stream-cut.
DRAINAGE 3.1 square miles (polar planimeter)
STREAM MOUTH IDENTIFICATION
ANCHORAGE Refer to WC 77.
TRAILS AND SURVEY ROUTES No trails. Can be waded. Very difficult to survey.
AERIAL SURVEY NOTES Cannot be surveyed by air.

INTERTIDAL ZONE

LENGTH 0.1 mile.
AVERAGE WIDTH/DEPTH 35'/4".
GRADIENT AND VELOCITIES Slow.
BOTTOM Mud and gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS Off mouth and one large hole at head of tide water.
SPAWNING AREAS None.
GENERAL NOTES

UPSTREAM

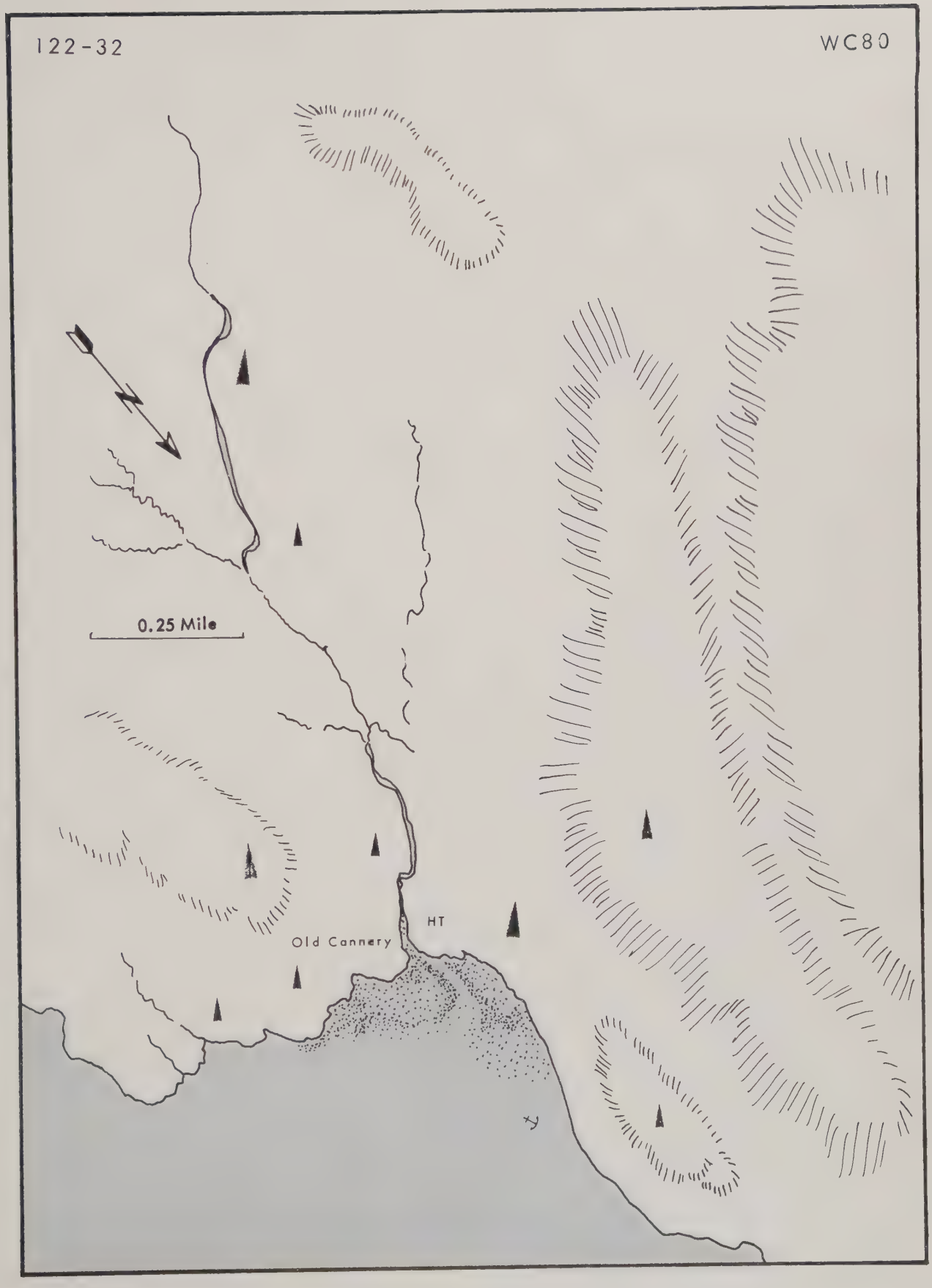
LENGTH ACCESSIBLE 1.5 miles.
AVERAGE WIDTH/DEPTH 20'/10".
GRADIENT AND VELOCITIES Steep.
BOTTOM Boulders and some gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS Many downfalls.
TRIBUTARIES None.
SCHOOLING AREAS In small pools throughout stream.
SPAWNING AREAS Very limited.
GENERAL NOTES

ADF STAT. No.
WC 79
Previous No. 34

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1940								
Oct 2		FWS	14,000					Excellent
1941								
		FWS	36,000		2,600			Excellent
1942								
Sep 20		FWS	12,000		3,000			Excellent
1943								
Sep 29		FWS	5,000		1,000			Excellent
1944								
Oct 7		FWS	18,000		1,000			Excellent
1945								
Sep 21		FWS	25,000		200			Excellent
1947								
Oct 5		FWS	12,000		3,000			Good
1948								
Sep 25		FWS						Good. Few chum. Pink good
1949								
Oct 1	G 4.0	FWS	16,300		100			
1953								
Sep 14	G 0.3	FWS	160		20			
1960								
Aug 17	A	ADF	0		0			None at mouth
Aug 28	A	ADF	0		0			Few chum at mouth
Sep 16	G 1.0	ADF	200		500			2,000 chum at mouth. Some dead
Sep 27	A	ADF	0		0			None at mouth. Some dead
1961								
Aug 15	A	ADF						No pink observed in stream. 300 pink at mouth
Aug 21	G 0.2	ADF						No fish observed
Sep 12	A	ADF						600 pink and chum at mouth


122-32
WC80
0.25 Mile
Old Cannery
HT

ADF STAT. No.
WC 80
ADF No. 166D
FWS No. 31E

122-32
55°44.5' N. 133°30.5' W.

WEST COAST TONOWEK BAY, WARM CHUCK INLET, 3 miles from head of W. arm.

MAJOR SPECIES Pink. OTHER SPECIES Chum.
ESCAPEMENT TIMING Late. Sep.-Oct. (est.) ESCAPEMENT MAGNITUDE
SPAWNING FACILITIES Poor to fair.
STREAM TEMPERATURES Warm range. No observed temperatures.
VALLEY DESCRIPTION Glacial-cut. Valley runs in a NE. direction. A mountain parallels the course of the stream on the N. side.
DRAINAGE 2.3 square miles (polar planimeter)
STREAM MOUTH IDENTIFICATION Enters the W. arm on the N. side of the old cannery site.
ANCHORAGE
TRAILS AND SURVEY ROUTES Most easily surveyed by wading up the stream. The banks are brushy with numerous downfalls.
AERIAL SURVEY NOTES Cannot be surveyed by air.

INTERTIDAL ZONE

LENGTH 300 yards. AVERAGE WIDTH/DEPTH 15'/4"-8".
GRADIENT AND VELOCITIES Moderate.
BOTTOM Boulders with large gravel.
LOW TIDE LOCATION
HIGH TIDE LOCATION
SCHOOLING AREAS The only schooling area is at the head of the zone.
SPAWNING AREAS Limited spawning areas are found below the high tide mark.
GENERAL NOTES

UPSTREAM

LENGTH ACCESSIBLE >1 mile. AVERAGE WIDTH/DEPTH 10'/6".
GRADIENT AND VELOCITIES Moderate to swift.
BOTTOM Boulders and large gravel.
MARKER DISTANCE
MARKER IDENTIFICATION
BARRIERS None.
TRIBUTARIES None reported.
SCHOOLING AREAS Numerous pools.
SPAWNING AREAS Spawning takes place on all riffle areas.
GENERAL NOTES The stream forks 0.7 mile above the mouth forming 2 small channels.

122-32

ADF STAT. No.
WC 80

ESCAPEMENT RECORD

[Counts made by ground surveys are designated by G. Aerial surveys by A]

Date	SURVEYED Miles	By	PINK Live	PINK Dead	CHUM Live	CHUM Dead	OTHER SPECIES Live	REMARKS Adjective rating
1941								
		FWS	20,000					Excellent
1942								
Sep 20		FWS	15,000		6,000			Excellent
1943								
Sep 29		FWS	10,000		1,000			Excellent
1944								
Oct 7		FWS	25,000		5,500			Excellent
1947								
Oct 5		FWS	2,500		1,000			Good
1948								
Sep 25		FWS						Poor. Few chum and pink
1953								
Sep 14	G 0.1	FWS	15		13			Most chum spawned out
1958								
Sep 7	A	FWS	600	0				Few chum. Pink schooled at mouth
1960								
Aug 28	A	ADF	0		0			None at mouth
Sep 6	A	ADF	0		0			200 pink at mouth
Sep 16	G 1.0	ADF	100		300			500 pink and chum
Sep 27	A	ADF	0		0			None at mouth. No sign of fish

GPO 985-662

Created in 1849, the Department of the Interior—America's Department of Natural Resources—is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and recreational resources. It also has major responsibilities for Indian and Territorial affairs.

As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States—now and in the future.